

Community Noise Forum
Monday, May 23, 2016
Agenda

- I. Call to order: 6:00PM
- II. Minutes of March 23, 2016.
- III. NEM Update: Harris Miller Miller & Hanson Inc. (HMMH)
- IV. Part 150 NCP
 - A. Update: Noise Insulation Program
 - B. Contraflow Exceptions
- V. Current Noise Concerns
 - A. Noise Concerns/Complaints
 - B. Runway Utilization
 - C. Construction and Maintenance Activity
- VI. Announcements
- VII. Next Meeting: July 25, 2016,
- VIII. Adjournment

COMMUNITY NOISE FORUM (CNF)
Monday, March 28, 2016

Members

John Sistarenik, ANA
Tom Foote, Airline Affairs
Mary Rose Evans, LRAA Board
Brian Sinnwell, LRAA
Bob Slattery, LRAA

Verna Goatley, Metro
John Greathouse, Southwest (Alt)
Denny Thompson, Southeast
Mike Zanone, Northwest
Ken Dietz, UofL

Guests

Nancy Bowman-Denton, BNA
Amy Kehoe, Delta
Greg Angus, BNA
Debbie Borens, BNA

Debbie Thompson, BNA
J. Derek Nutt, BNA
Karen Stephen, BNA
Joan Shepherd, BNA

The meeting was called to order at 6:00 p.m. by John Sistarenik. A motion to approve the meeting notes for the January meeting as written was made by Verna Goatley and seconded by John Greathouse.

Election of officers for Chair and Vice Chair were held. John Sistarenik was re-elected as Chair with a nomination from Mary Rose Evans and seconded by Mike Zanone. Tom Foote was elected as Vice Chair with a nomination from Mary Rose Evans and seconded by John Greathouse. John and Tom will serve as Chair and Vice Chair, respectively, for one year.

Part 150 NCP:

- A. Update: Phase 1, 2, 3, 3A, 3A-1, 4A, 4B, 5, 6, 7 and 7LC:** Sound insulation is complete. 542 homes have received sound insulation.

Phase 3B: On January 13, 2016 Audubon Park filed a Motion in the Kentucky Court of Appeals for Discretionary Review.

University of Louisville: Acoustical testing was conducted on 13 Belknap campus buildings during the week of spring break (March 12-20). A second round of testing is scheduled for April 29-May 4. This round of testing will include 4 additional buildings.

- B. Contraflow Exceptions:** Contraflow for January was **69% for arrivals** from the south and **69% for departures** to the south. In February, **arrivals** from south were 87% and **departures** to the south were 65%. A daily summary for January and March is contained in the handout. The 2 year average (March 2014-February 2016) for contraflow is 72% for arrivals and 79% for departures. A monthly summary going back 8 years is also included in the handout.

- C. Noise Exposure Map Update:** The consultants are currently in the data gathering stage. They are processing radar data, updating fleet forecasts, preparing custom profiles and aircraft substitution memos that will need to go to the FAA for approval. Several stakeholder meetings were held on March 10-11, 2016 with FAA, airlines, tenants and Metro Planning and Design. The current plan is that the consultants will attend the May CNF meeting and present modeling input/assumptions for your review. Modeling assumptions include: aircraft fleet mix, runway use, land use, forecasts, aircraft substitutions and non-standard profiles. It may be possible to have the modeling assumptions sent out prior to the May meeting in order to review prior to the consultant's presentation. As a minimum, you should receive the aircraft substitutions/non-standard profiles as well as the forecast memos prior to the May meeting. These items will need to go to the FAA for approval and time is critical.

Current Noise Concerns:

- A. Report on Noise Concerns/Complaints:** We received a total of 71 comments in January. 6 comments were received at the QHP project office and 65 were received by the LRAA. In February, a total of 28 comments were received. 7 were received at the QHP project office and 21 were received by the LRAA. The large spike in comments for January was primarily due to questions regarding the proposed tax credit legislation.
- B. Runway Utilization:** Runway utilization percentages for January and February are contained in the handout. Daily runway utilization and comments from the Air Traffic Control Tower for both months are also included in the handout.
- C. Construction and Maintenance Activity:** Brian Sinnwell reported that currently there are no active construction projects.

Announcements: Mary Rose Evans announced that Jim Wayne has filed the bill for the tax credit. The bill (HB-423) passed the house and is now in the Senate for review. ANA has written letters to Senators Stivers, McDaniel, and Seum to help get this bill passed. The ANA will be involved as they write the rules of who qualifies for this program.

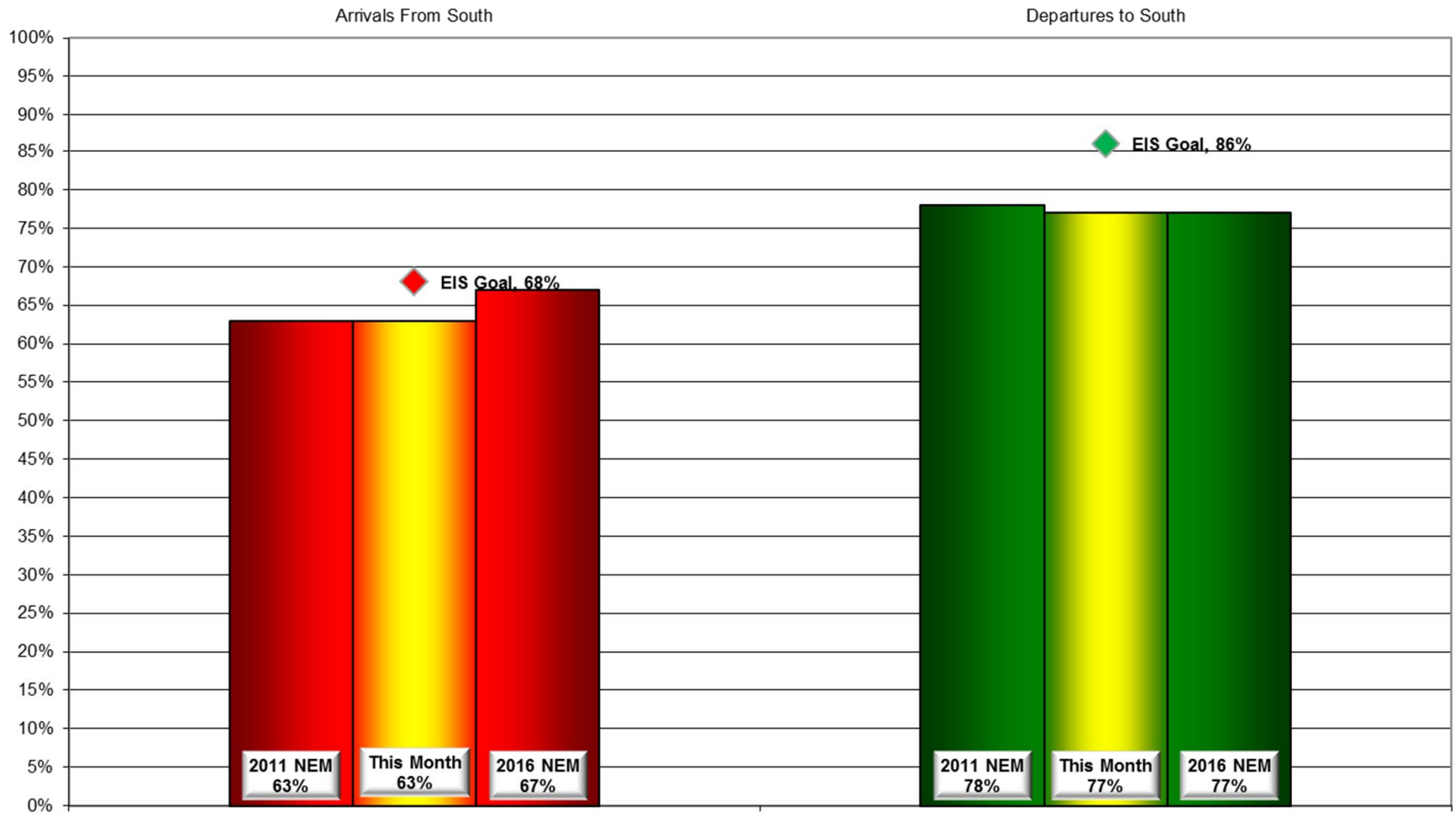
Guest Comments: Nancy Bowman-Denton, BNA, wanted to know what you need to qualify for the tax credit. Bob Slattery told her Noise Exposure Map is the basis for who gets the tax credit. She also wanted to know if the ground noise is considered when doing the NEM's. Bob told her that the noise of the aircraft taxiing from the ramp to the runway is not included, but when they are on the runway and run-up the engines for takeoff, that noise is included. A question was asked if the wall is there to replace the Berm that was taken down. Bob explained that wall was put in place to replace the berm. The wall or berm are not considered in the calculations for the NEM and the noise is not subtracted or reduced because of the wall. A noise barrier will only benefit the homes closest to the barrier. The further out in the neighborhood, the less benefit a barrier would provide. She says that the wall isn't high enough when you add the airplanes on the runway. Bob said

the wall was the same height as the Berm, but will take a look at it. Karen Steven asked if they could review the draft modeling assumptions before the next meeting. Bob explained that the information will be presented at the next CNF meeting. The consultants will be at the meeting to present information and answer questions.

Next Meeting: Monday, May 23, 2016 at 6 p.m.

Adjournment: A motion was made to adjourn the meeting at 6:48 p.m.

Monthly Contraflow March 1-31, 2016



Daily Runway Use Summary – March 2016

(from 10:00 PM date list in first column to 7:00 AM the following morning)

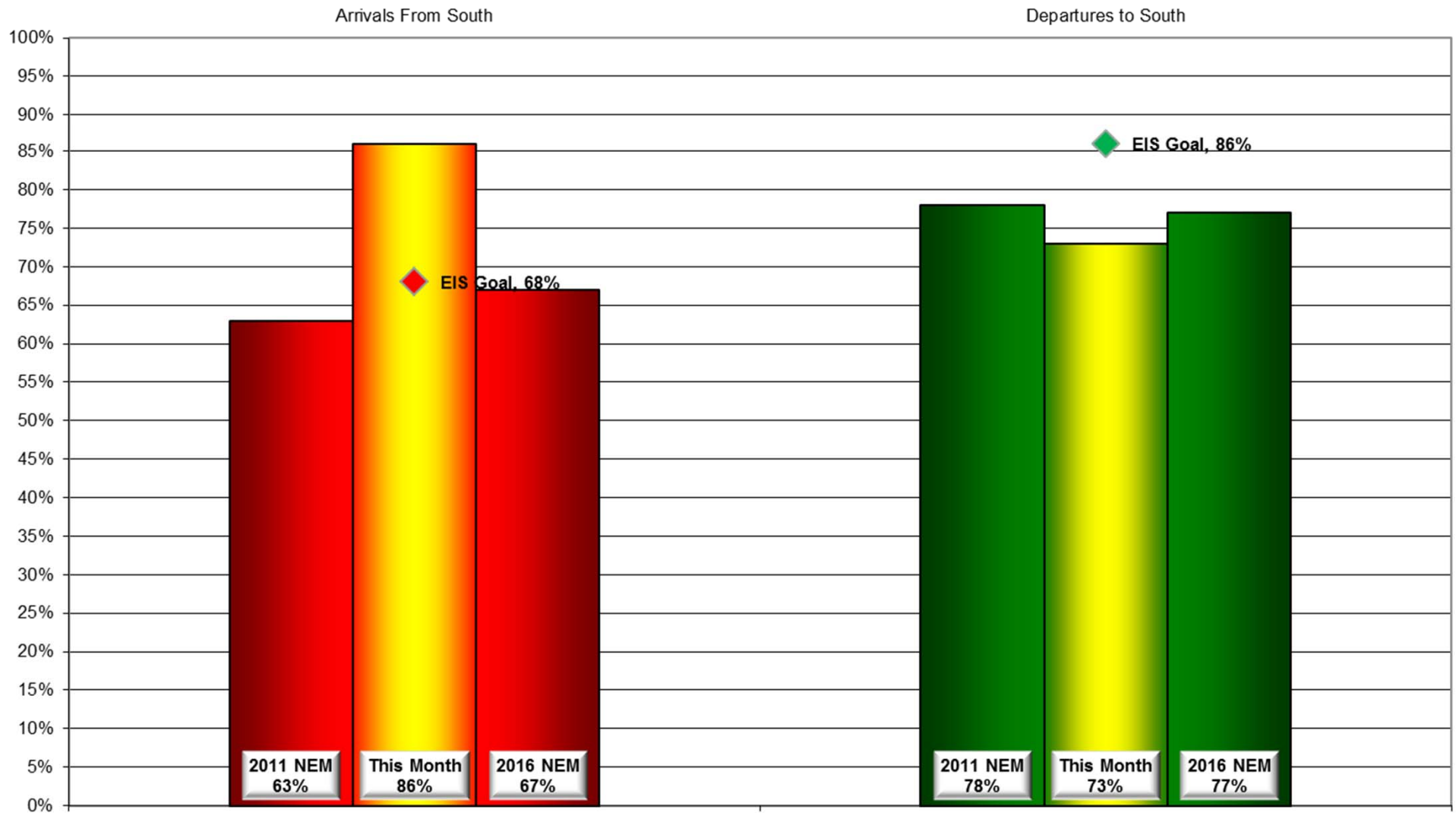
		% of all arrivals from the south										% of all departures to the south										
Date	Day	* in	Runway #						Unknown	Notes /		** in	Runway #						Unknown	Notes /		
		compliance	11	17L	17R	29	35L	35R	Use				Runway	compliance	11	17L	17R	29	35L			35R
03/01/16	Tue	100%						60	40	0		0%						63	37	0	300-320@8-11knts,SN	
03/02/16	Wed	98%			2			55	43	0		94%			35	59		2	4	0		
03/03/16	Thu	96%			4			60	36	0		95%			34	61		1	4	0		
03/04/16	Fri	94%			2	4		57	37	0		95%			41	54			5	0		
03/05/16	Sat																					
03/06/16	Sun																					
03/07/16	Mon	0%			44	56				0	180-190@6-10knts	100%			37	63				0		
03/08/16	Tue	0%			42	58				0	140-180@7-10knts	100%			40	60				0		
03/09/16	Wed	98%				2		57	41	0		96%			28	68		2	2	0		
03/10/16	Thu	100%						60	40	0		0%						58	42	0	360-010@5-10knts	
03/11/16	Fri	95%			3	2		56	39	0		93%			35	58		2	5	0		
03/12/16	Sat																					
03/13/16	Sun																					
03/14/16	Mon	98%			2			59	39	0		93%			32	61		2	5	0		
03/15/16	Tue	2%			45	53		1	1	0	160-220@8-14knts,G19	22%			9	13		41	37	0	230-290@14-19knts,G40,TSR	
03/16/16	Wed	0%			45	55				0	240-270@11-15knts,G23	100%			42	58				0		
03/17/16	Thu	97%			2	1		58	39	0		97%			34	63		1	2	0		
03/18/16	Fri	100%						62	38	0		0%						54	46	0	030-050@6-11knts,RA	
03/19/16	Sat																					
03/20/16	Sun																					
03/21/16	Mon	0%			46	54				0	170-210@3-6knts	100%			36	64				0		
03/22/16	Tue	0%			44	56				0	190-210@14-17knts,G25	100%			40	60				0		
03/23/16	Wed	0%			47	53				0	170-180@12-14knts	100%			42	58				0		
03/24/16	Thu	100%						60	40	0		0%						55	45	0	290-330@10-17knts,G24	
03/25/16	Fri	94%			4	2		60	34	0		96%			39	57		1	3	0		
03/26/16	Sat																					
03/27/16	Sun																					
03/28/16	Mon	96%			3	1		55	41	0		96%			35	61		1	1	2	0	
03/29/16	Tue	97%			2	1		63	34	0		94%			29	65		3	3	0		
03/30/16	Wed	0%			49	51				0	180-210@13-19knts,G24	100%			38	62				0		
03/31/16	Thu	92%			4			4	51	41	0		93%			33	60		3	4	0	

Preferred Flow

DATIS Reported Conditions Indicate
Support for Non-Preferred Flow

DATIS Reported Conditions Do Not Indicate
Support for Non-Preferred Flow

Monthly Contraflow April 1-29, 2016



Daily Runway Use Summary – April 2016

(from 10:00 PM date list in first column to 7:00 AM the following morning)

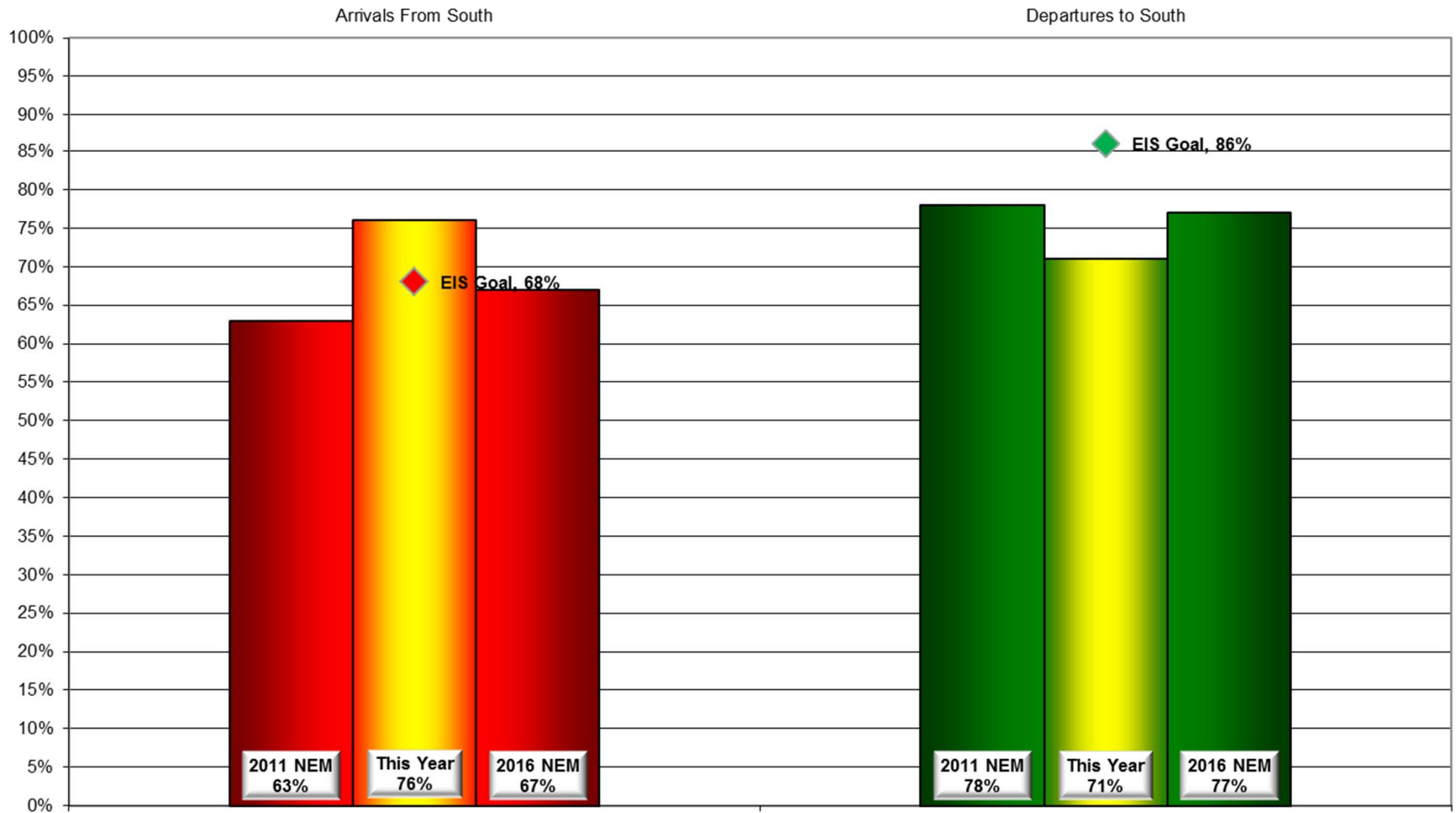
		% of all arrivals from the south											% of all departures to the south										
Date	Day	* in	Runway #							Unknown	Notes / Comments	** in	Runway #							Unknown	Notes / Comments		
		compliance	11	17L	17R	29	35L	35R	Use	compliance		11	17L	17R	29	35L	35R	Use					
04/01/16	Fri	100%						62	38	0		0%						55	45	0	280-310@6-12knts		
04/02/16	Sat																						
04/03/16	Sun																						
04/04/16	Mon	100%						61	39	0		0%						57	43	0	360-010@7-11knts		
04/05/16	Tue	84%			7	9		47	37	0		95%			35	60		2	3	0			
04/06/16	Wed	96%				2		2	57	39	0	13%			4	9		1	55	31	0	210-270@7-15knts,G21	
04/07/16	Thu	96%			2	2			57	39	0	90%			33	57			5	5	0		
04/08/16	Fri	94%						6	58	36	0	0%						1	48	51	0	290-300@11-13knts,G20	
04/09/16	Sat																						
04/10/16	Sun																						
04/11/16	Mon	97%			1	2			61	36	0	90%			38	52			7	3	0		
04/12/16	Tue	96%			2	2			58	38	0	96%			39	57			2	2	0		
04/13/16	Wed	97%			2	1			61	36	0	96%			39	57			2	2	0		
04/14/16	Thu	96%			2	2			58	38	0	94%			33	61			3	3	0		
04/15/16	Fri	89%			4	7			56	33	0	97%			39	58			1	2	0		
04/16/16	Sat																						
04/17/16	Sun																						
04/18/16	Mon	93%			5	2			60	33	0	97%			42	55			2	1	0		
04/19/16	Tue	98%			1	1			60	38	0	97%			37	60			1	2	0		
04/20/16	Wed	91%			7	2			56	35	0	96%			47	49			2	2	0		
04/21/16	Thu	0%			45	55				0	170-300@4-11knts,TSRA	100%			38	62					0		
04/22/16	Fri	96%			4				57	39	0	0%							58	42	0	350-010@7-11knts	
04/23/16	Sat																						
04/24/16	Sun																						
04/25/16	Mon	85%			10	5			54	31	0	98%			39	59			1	1	0		
04/26/16	Tue	73%			7	20			40	33	0	95%			35	60			2	3	0		
04/27/16	Wed	73%			9	18			45	28	0	97%			40	57			2	1	0		
04/28/16	Thu	62%			22	16			40	22	0	R3704 active	96%			38	58			1	3	0	
04/29/16	Fri	93%			1	6			61	32	0	93%			40	53			3	4	0		

Preferred Flow

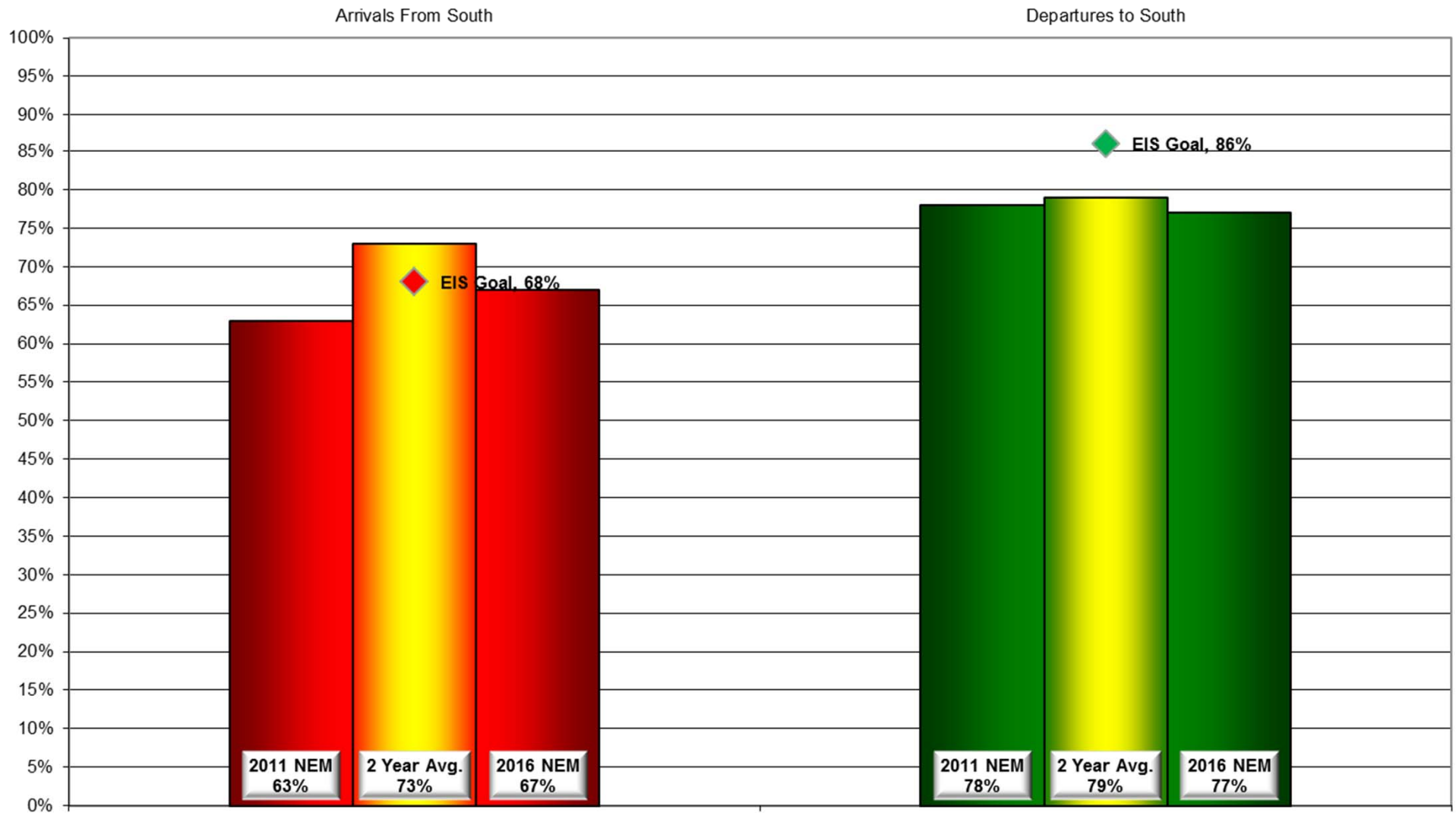
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Support for Non-Preferred Flow

DATIS Reported Conditions Do Not Indicate
Support for Non-Preferred Flow

Contraflow This Year As of April 29, 2016



Contraflow 2 Year Average May 2014 - April 2016



Year-to-Year by Month Percent* Contraflow

Arrivals From the South (Goal 68%)										Departures to the South (Goal 86%)									
	2009	2010	2011	2012	2013	2014	2015	2016	Avg		2009	2010	2011	2012	2013	2014	2015	2016	Avg
Jan	63%	94%	91%	62%	72%	51%	76%	69%	72%	Jan	74%	54%	71%	80%	65%	81%	76%	69%	71%
Feb	49%	90%	73%	69%	77%	72%	66%	80%	72%	Feb	81%	71%	63%	74%	78%	71%	76%	67%	73%
Mar	46%	80%	52%	61%	87%	60%	71%	63%	65%	Mar	67%	82%	72%	96%	77%	77%	66%	77%	77%
Apr	53%	57%	47%	78%	60%	67%	53%	86%	63%	Apr	84%	84%	83%	76%	89%	83%	77%	73%	81%
May	66%	56%	69%	72%	46%	60%	75%		64%	May	84%	87%	85%	81%	85%	92%	80%		84%
Jun	72%	66%	61%	79%	76%	75%	57%		66%	Jun	81%	96%	93%	87%	80%	91%	91%		89%
Jul	72%	61%	91%	62%	74%	79%	74%		74%	Jul	82%	90%	88%	92%	88%	85%	80%		86%
Aug	61%	59%	82%	49%	84%	61%	86%		72%	Aug	96%	92%	91%	91%	92%	92%	91%		90%
Sep	89%	70%	85%	55%	86%	85%	95%		82%	Sep	82%	73%	64%	92%	87%	86%	73%		79%
Oct	42%	80%	88%	62%	87%	75%	86%		75%	Oct	71%	78%	63%	78%	89%	79%	74%		76%
Nov	74%	85%	55%	84%	73%	78%	59%		72%	Nov	73%	77%	72%	81%	83%	62%	88%		76%
Dec	71%	67%	70%	64%	58%	78%	55%		65%	Dec	65%	78%	65%	67%	71%	68%	79%		69%
Avg	63%	72%	72%	66%	73%	70%	71%	75%		Avg	78%	80%	76%	83%	82%	81%	79%	72%	

*Number is percentage of all operations between 10:00 PM - 7:00 AM



***LOUISVILLE
REGIONAL
AIRPORT
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NOISE COMMENT REPORT

March 2016

Comments (SDF/LOU)

March 2016

Street	Zip Code	Time Received	Time	Airport	Disturbance Type	CNF Quad	Status	Operation or Comment Type ¹	Deviation Type ²	Comments
Jeanine Dr	40219	2016-03-01 08:08:50	2016-03-01 08:08:50	SDF	Other	SE	Investigated	LQHP	None	Homeowner called to inquire about the program.
Texas Ave	40217	2016-03-02 09:12:15	2016-03-02 09:12:15	SDF	Other	NE	Investigated	LQHP	None	Homeowner called to see if he was eligible. He wanted to know if the area ever expands.
Morgan AV	40213	2016-03-03 10:12:15	2016-03-03 10:12:15	SDF	Other	NE	Investigated	LQHP	None	I am wondering if I am eligible for this QHP program. The National Guard and UPS has got worse over the last 5 years. I cannot even hear the TV. Every window in my house rattles. You stopped 3 houses away. It is no joke. They never used to take that hard right. Military helicopters flying over and UPS is really loud. Wasn't that bad when I first moved in. Did they expand? Hasn't slowed any traffic down. It is awful loud here.
Greenleaf Rd	40213	2016-03-11 01:12:15	2016-03-11 01:12:15	SDF	Other	NE	Investigated	LQHP	None	New homeowner of the property called to see if they are eligible for the program. He said that it is VERY noisy there.
Rosemary Dr	40213	2016-03-15 02:15:15	2016-03-15 02:15:15	SDF	Other	NE	Investigated	LQHP	None	Homeowner called regarding eligibility and sound testing for his home.
Greenleaf Rd	40213	2016-03-21 02:22:15	2016-03-21 02:22:15	SDF	Other	NE	Investigated	LQHP	None	New homeowner called to see if the boundary was expanding to include his home.
E Brandeis Ave	40217	2016-03-30 01:15:15	2016-03-30 01:15:15	SDF	Other	NE	Investigated	LQHP	None	Will they ever expand the boundary?

1. **Standard:** Indicates the “Most Preferred” runway configuration was being utilized at the time of the comment.
Non Standard: Indicates that a “Lesser Preferred” runway configuration was being utilized at the time of the comment.
QHP: QuieterHome Program

2. This column is used to indicate the conditions which most likely necessitated a deviation from the standard procedures.

Comments (SDF/LOU)

March 2016

Street	Zip Code	Time Received	Time	Airport	Disturbance Type	CNF Quad	Status	Operation or Comment Type ¹	Deviation Type ²	Comments
S 6th St	40214	2016-03-30 02:15:15	2016-03-30 02:15:15	SDF	Run-ups	SW	Investigated	LQHP	None	The airplane ground noise early in the morning is unbearable. It starts around 4:00 AM And lasts a couple of hours. Neighbors are trying to get the airport people to install Higher barriers to block some of the noise. Anyone that can help is welcome in our home to experience what we and our neighbors the level of the noise.
Reading Rd	40217	2016-03-30 08:22:15	2016-03-30 08:22:15	SDF	Other	NE	Investigated	LQHP	None	New homeowner came in to inquiry about the program. According to the PVA - the property is zoned commercial. Eligible participants in our program are zoned residential. The owner advised that they are changing it to residential and are interested in the program.
Brandeis Ave	40217	2016-03-30 11:22:15	2016-03-30 11:22:15	SDF	Other	NE	Investigated	LQHP	None	Last year my wife and I lived in a home that was worked on through this program. We have just bought a home and are expecting a new child mid-summer. Our house is on the flight path for planes landing all day and night and we were worried about the new baby having a hard time sleeping with that. We wanted to know if we were eligible or if we could be eligible to have this program come and see if we qualify for this.
Jeanine Dr	40219	2016-03-01 08:08:50	2016-03-01 08:08:50	SDF	Other	SE	Investigated	LQHP	None	Homeowner called to inquire about the program.
							Received	LQHP	11	
Melford AV	40217	2016-03-02 17:55:00	2016-03-02 17:55:00	SDF	Noise At Wrong Time	NE	Investigated	Standard	None	Why is contra flow not being observed tonight? Wind is currently 4 mph in Louisville.

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Comments (SDF/LOU)

March 2016

Street	Zip Code	Time Received	Time	Airport	Disturbance Type	CNF Quad	Status	Operation or Comment Type ¹	Deviation Type ²	Comments
Eastern PKY	40217	2016-03-08 00:00:05	2016-03-07 23:00:00	SDF	Too Much Noise	NE	Investigated	Non-Standard	Weather	The airport noise is a bit excessive again tonight.
S 6th St	40208	2016-03-08 23:34:00	2016-03-08 00:00:00	SDF	Noise At Wrong Time	NW	Investigated	Non-Standard	Weather	Planes last night, during the day today, and now they are running every few minutes overhead. My understanding is my location is in the 65 decibel zone; however I have been monitoring planes exceeding the 85 range. Personally I think landing planes over the densest populated square mile of Jefferson County is not ideal. This is further compounded by the Landmarks regulation to prevent replacement windows from being installed on the facade of homes. I ask that you research the flight patterns, I am curious to know how many landings have occurred from the North on 3/7/2016 and 3/8/2016. I will be attending the March 28th meeting, hopefully to learn what can be done about this.
Eastern PKY	40217	2016-03-10 04:53:00	2016-03-10 04:53:00	SDF	Too Much Noise	NE	Investigated	Standard	None	As I write, the airport is very loud.
S. 2nd ST	40214	2016-03-11 02:50:00	2016-03-11 02:50:00	SDF	Too Much Noise	SW	Investigated	Non-Standard	Weather	Document this call and please give me a call back in the morning. UPS planes just went over the house. I am actually outside cleaning windows so I cannot figure out why they are doing it, but they keep doing it. Call me.
S. 2nd ST	40214	2016-03-11 02:50:30	2016-03-11 02:50:30	SDF	Too Much Noise	SW	Investigated	Non-Standard	Weather	A third one just went over. I am getting frustrated with this.

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Comments (SDF/LOU)

March 2016

Street	Zip Code	Time Received	Time	Airport	Disturbance Type	CNF Quad	Status	Operation or Comment Type ¹	Deviation Type ²	Comments
S. 2nd ST	40214	2016-03-11 04:56:00	2016-03-11 04:56:00	SDF	Too Much Noise	SW	Investigated	Non-Standard	Weather	There is nothing out here going on and you have all those UPS planes going over our neighborhood. I mean right over our street. This is crazy.
S. 2nd ST	40214	2016-03-11 05:00:00	2016-03-11 05:00:00	SDF	Too Much Noise	SW	Investigated	Non-Standard	Weather	Another one just passed. That makes at least 10 tonight going over the house. I think I will just leave you on speaker to see how many you can catch. You had better give me a call in the morning because I have done got really fed up with this. My grandbaby is crying because they can't sleep. There is not a breeze in the air. Guess what, I hear another one coming up. Why don't you and I just join listening in as they head up and build up to go over the neighborhood.
S. 2nd ST	40214	2016-03-11 05:01:00	2016-03-11 05:01:00	SDF	Too Much Noise	SW	Investigated	Non-Standard	Weather	It is so freaking loud that I cannot even hear myself talking to you. I am going to get active on this airport mitigation again if I have to.
S. 2nd ST	40214	2016-03-11 05:06:00	2016-03-11 05:06:00	SDF	Too Much Noise	SW	Investigated	Non-Standard	Weather	Oh Bob, please join me in the noise out in my front yard. UPS going over, can you hear me with the planes? That is pretty damn loud don't you think? Believe me I keep everything recorded. Document how many times I have called you this morning. I have had enough.
S. 2nd ST	40214	2016-03-11 05:09:00	2016-03-11 05:09:00	SDF	Too Much Noise	SW	Investigated	Non-Standard	None	It is fortunate for you that by the time I get to your voicemail the planes are gone. Document another plane went over. I am going to call you every time one goes over. Hold on Bob got another one coming over. You can just add another one to your list.

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S. 2nd ST	40214	2016-03-11 05:11:00	2016-03-11 05:11:00	SDF	Too Much Noise	SW	Investigated	Non-Standard	Weather	Another one bites the dust. Mark down another one.
S. 2nd ST	40214	2016-03-11 05:15:00	2016-03-11 05:15:00	SDF	Too Much Noise	SW	Investigated	Non-Standard	Weather	Mark another one. I think I am just going to leave you on speaker Bob because I know how annoyed you probably are with my phone calls. Just imagine how annoyed I am. They are not even 60 seconds away from each other and it is definitely UPS.
S. 2nd ST	40214	2016-03-11 05:17:00	2016-03-11 05:17:00	SDF	Too Much Noise	SW	Investigated	Non-Standard	Weather	You got to miss that one Bob but you can mark down another one. If you hang on here a second I am sure you are going to get another one. I am just going to keep you on hold here.
S. 2nd ST	40214	2016-03-11 05:18:00	2016-03-11 05:18:00	SDF	Too Much Noise	SW	Investigated	Non-Standard	Weather	Guess who? Another plane.
S. 2nd ST	40214	2016-03-11 05:21:00	2016-03-11 05:21:00	SDF	Too Much Noise	SW	Investigated	Non-Standard	Weather	Time this. Because that magical wind gust has disappeared again. Mark it, date it, time it.

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Comments (SDF/LOU)

March 2016

Street	Zip Code	Time Received	Time	Airport	Disturbance Type	CNF Quad	Status	Operation or Comment Type ¹	Deviation Type ²	Comments
Belgravia Ct	40208	2016-03-16 01:19:00	2016-03-15 07:00:00	SDF	Too Much Noise	NW	Investigated	Non-Standard	Weather	The noise has been particularly intrusive today (March 15th). It began with breakfast and lasted through dinner and well into the evening making even the most rudimentary conversation difficult. We had out-of-town friends over for drinks after dinner and quite literally could not hear one another speak while the planes were overhead. It is an embarrassment to live in a city which has such low regard for its inhabitants. Quality of life doesn't seem to be anything either the city or UPS factored in when planning the flight patterns. We have French doors which open onto the court allowing the gentle breezes to waft through the rooms. Our tulip magnolia is in stunning full bloom but we might as well be on an aircraft carrier. It really is a disgrace.
S 2nd St	40208	2016-03-15 13:09:00	2016-03-15 12:30:00	SDF	Too Much Noise	NW	Investigated	Standard	None	I live in Old Louisville. It is 1:10 PM on March 15. Recently in the last half hour there has been a lot of flying over with a lot of noise. It is a bright sunny day, it is not cloudy, no winds, and no storms. I am wondering why the planes are flying over. I thought they were supposed to be coming in from another direction when the weather was good so we would not have all this noise in Old Louisville. Also, I understand that you can tell me what the decibel level is here at my address in old Louisville.

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Comments (SDF/LOU)

March 2016

Street	Zip Code	Time Received	Time	Airport	Disturbance Type	CNF Quad	Status	Operation or Comment Type ¹	Deviation Type ²	Comments
S 6th St	40203	2016-03-15 13:00:00	2016-03-15 13:00:00	SDF	Other	NE	Investigated	Standard	None	I understand you are the man to contact about the insulation tax credit and whether or not one qualifies. I'm at S 6th St, which is approximately Oak and 6th. I'm looking at the NEM map and my property is inside of the dashed line. Could you provide me with any information? I'm about to have noise-reducing foam insulation installed and would like to know how to go about getting the credit.
S 3rd St	40208	2016-03-15 13:29:00	2016-03-15 13:00:00	SDF	Too Much Noise	NW	Investigated	Non-Standard	Weather	We met many years ago. You came out to my property and put a large microphone in the back yard. You recorded sound levels for a month. The air noise is never good, but it did seem to go down for a while. The past few months, and especially noticeable today because it is nice enough to open windows, the noise is out of control. I have guys working in my front yard. When they need to talk to me, we are interrupted every few minutes by very low, very loud planes. You can't even have a conversation outside. Lately, there has been an especially high pitched sound that is deafening. I installed a decibel reader on my phone and I consistently get readings from 75 to 100+. Most are closer to 100, a few as high as 110. The planes come every 3 to 6 minutes. No one deserves to live in these conditions. Can you tell me why it is so bad? We spoke back around 2004 and you mentioned they were working on a plan to re-route planes. What is happening with that and why is nothing changing? The guests at my bed and breakfast are complaining about the constant noise. What is it going to take to get some changes?

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Comments (SDF/LOU)

March 2016

Street	Zip Code	Time Received	Time	Airport	Disturbance Type	CNF Quad	Status	Operation or Comment Type ¹	Deviation Type ²	Comments
St James Ct	40208	2016-03-15 14:12:00	2016-03-15 14:12:00	SDF	Too Much Noise	NW	Investigated	Standard	None	Having just moved to Old Louisville (St. James Court) last May, we have been very disappointed with the level of aircraft noise. The city says it wants to see downtown revitalized and then has much of the historic Victorian neighborhoods directly in the airports current flight path? I understand there may be remedies and funding available to help with homes directly impacted? Please advise as it is nearly impossible to go to sleep in the late evenings with plane after plane flying over our home. I can't imagine a war zone being any worse!
S 4th St	40208	2016-03-15 17:53:00	2016-03-15 17:53:00	SDF	Too Much Noise	NW	Investigated	Non-Standard	Weather	I live on the edge of Central Park, and the noise is so loud we have to stop any conversation until the plane has passed. It was my understanding that planes were to be re-routed away from Old Louisville unless prevailing winds prevented all other approaches. Is this correct?
S 4th St	40208	2016-03-16 00:17:00	2016-03-15 23:00:00	SDF	Aircraft Too Low	NW	Investigated	Non-Standard	Weather	I am a resident of the Old Louisville neighborhood and have been increasingly awakened by airport noise. The time the noise seems to be at its worse is between 11:00 PM and 4:00 AM. It has become a topic of discussion for our neighborhood council and there is confusion as to why the increased noise occurs during late night hours and why the planes are flying so low over our historic neighborhood. Any insight you can offer is greatly appreciated.

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Comments (SDF/LOU)

March 2016

Street	Zip Code	Time Received	Time	Airport	Disturbance Type	CNF Quad	Status	Operation or Comment Type ¹	Deviation Type ²	Comments
Cherokee Dr	47130	2016-03-16 09:30:00	2016-03-16 03:00:00	SDF	Aircraft Too Low	SI	Investigated	Non-Standard	Weather	I was told to call you by WDRB. I live in Jeffersonville on Cherokee Drive. On Wednesdays, Thursdays, and Fridays the planes take off to the north and the noise is really bad. They make a high pitched whining sound and are non-stop every 3-4 minutes. I would like to know if they can get higher or reduce RPM.
Eastern PKY	40217	2016-03-16 04:50:00	2016-03-16 04:00:00	SDF	Too Much Noise	NE	Investigated	Non-Standard	Weather	Lots of noise again waking up my family. How are people supposed to sleep?
Spicewood LN	40219	2016-03-17 18:08:00	2016-03-17 18:00:00	SDF	Over Use of Runway	SE	Investigated	Non-Standard	Weather	I am calling because we have planes coming over our house that are extremely low. Low enough that I could look up and tell you the numbers on the bottoms of them. They are coming about every 15 minutes and I am not quite sure what is going on. We had issues a couple of years ago and they said it was because the winds were high.
Melford AV	40217	2016-03-22 00:29:00	2016-03-22 00:29:00	SDF	Noise At Wrong Time	NE	Investigated	Non-Standard	None	As I lie awake once again due to the noise, I wonder why contraflow is not being observed tonight. The wind speed is currently 2 mph on a clear night, yet UPS's planes are coming in from the north, and I expect them to leave to the north at about 3 AM later tonight. Does the wind speed have to be zero to follow contra flow? What exactly are these mysterious conditions for contraflow to take effect? I honestly can't remember the last night I was not disturbed by the UPS planes. I am trying to gain an understanding since the QuieterHome Program has deemed that sound does not travel east of Alexander Ave at Melford.

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Comments (SDF/LOU)

March 2016

Street	Zip Code	Time Received	Time	Airport	Disturbance Type	CNF Quad	Status	Operation or Comment Type ¹	Deviation Type ²	Comments
W. Ormsby	40203	2016-03-23 23:11:00	2016-03-23 23:11:00	SDF	Noise At Wrong Time	NW	Investigated	Non-Standard	Weather	I am calling to complain about the large number of planes that we have been having this week.
Parkway DR	40217	2016-03-25 14:52:00	2016-03-25 14:52:00	SDF	Other	NE	Investigated	Standard	None	I wanted to check with you about the windows on our home. We had not qualified before but I wanted to see if you could do anything for us.
							Received	LRAA	28	

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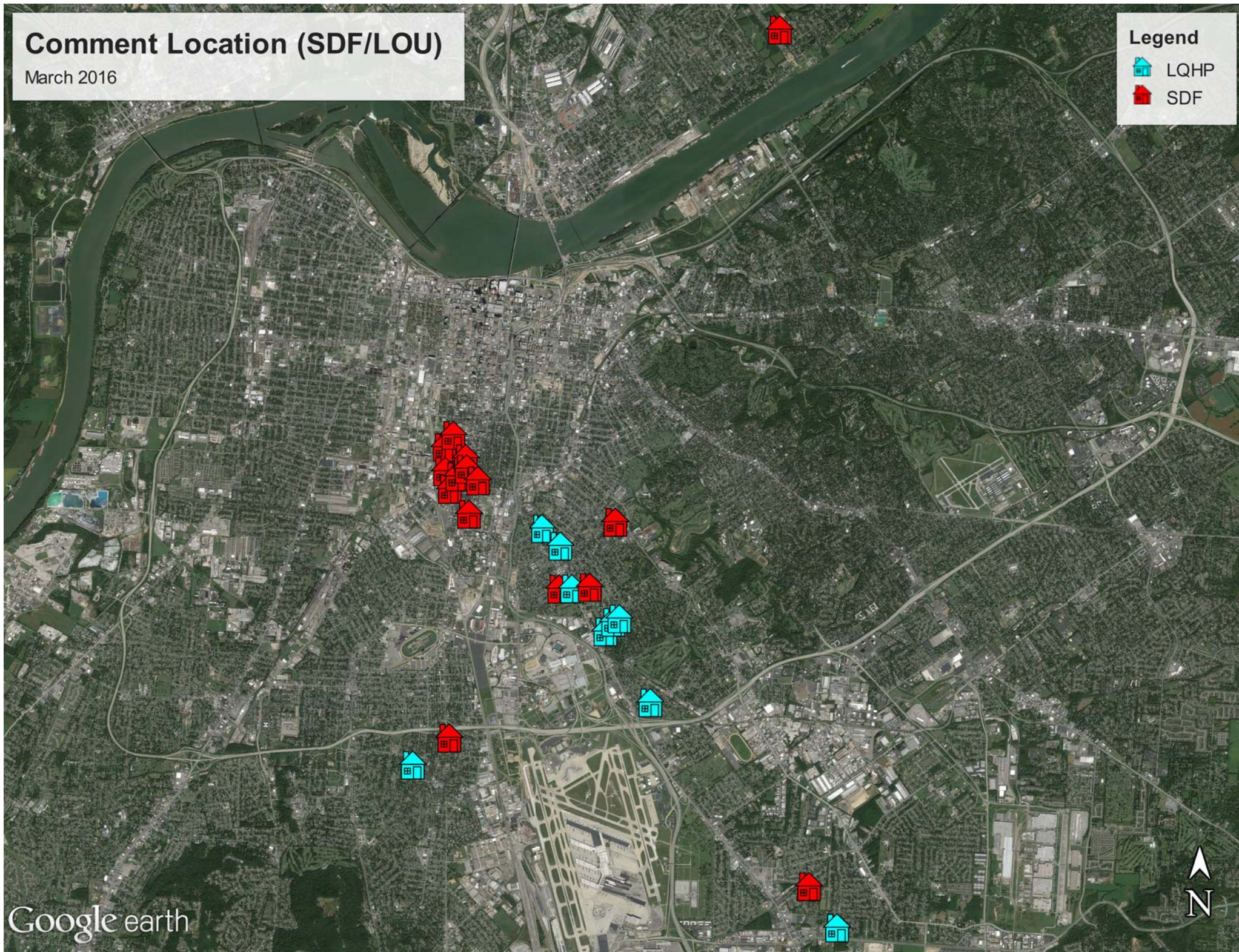
2. This column is used to indicate the conditions which most likely necessitated a deviation from the standard procedures.

Comment Location (SDF/LOU)

March 2016

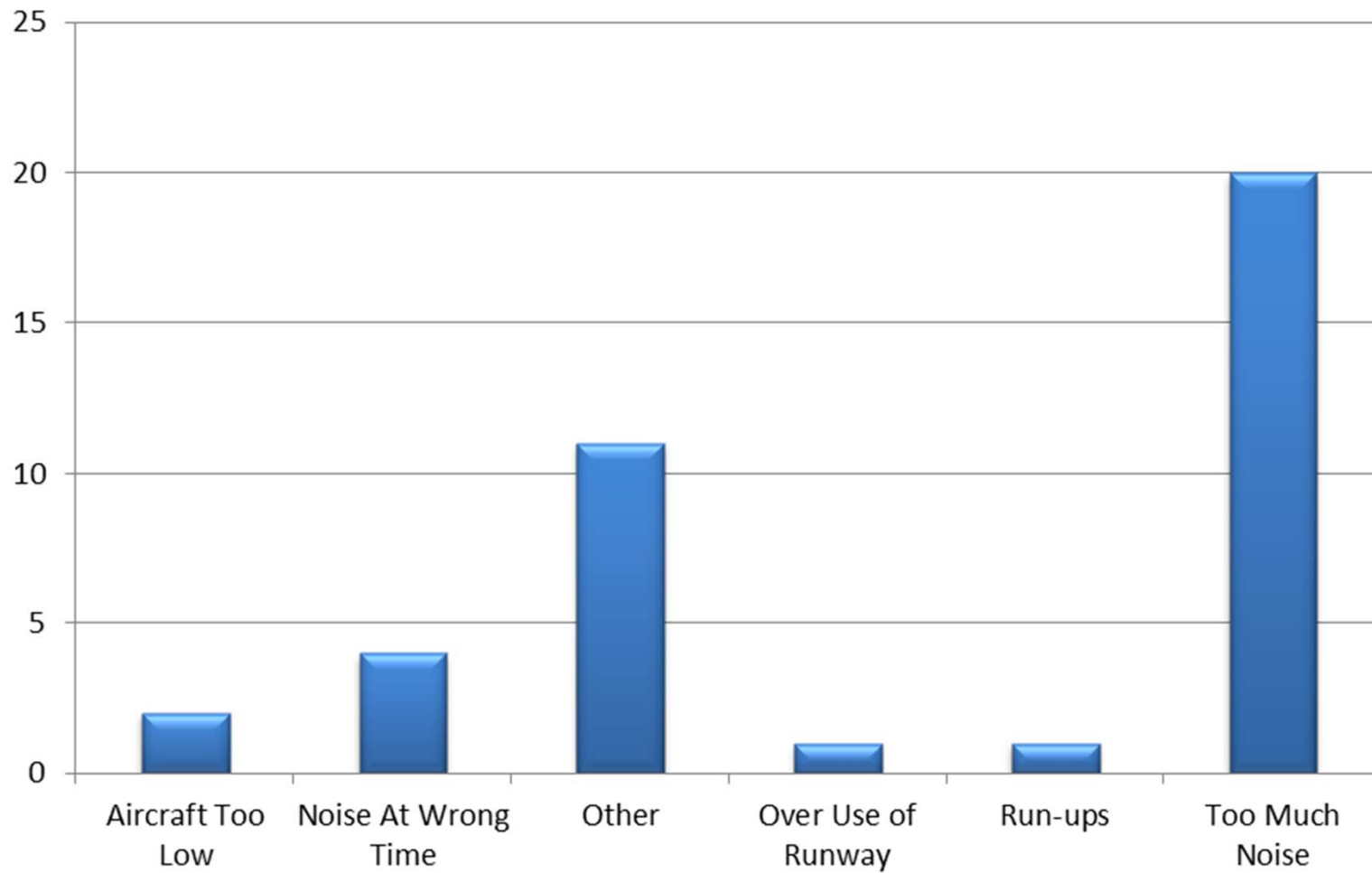
Legend

-  LQHP
-  SDF



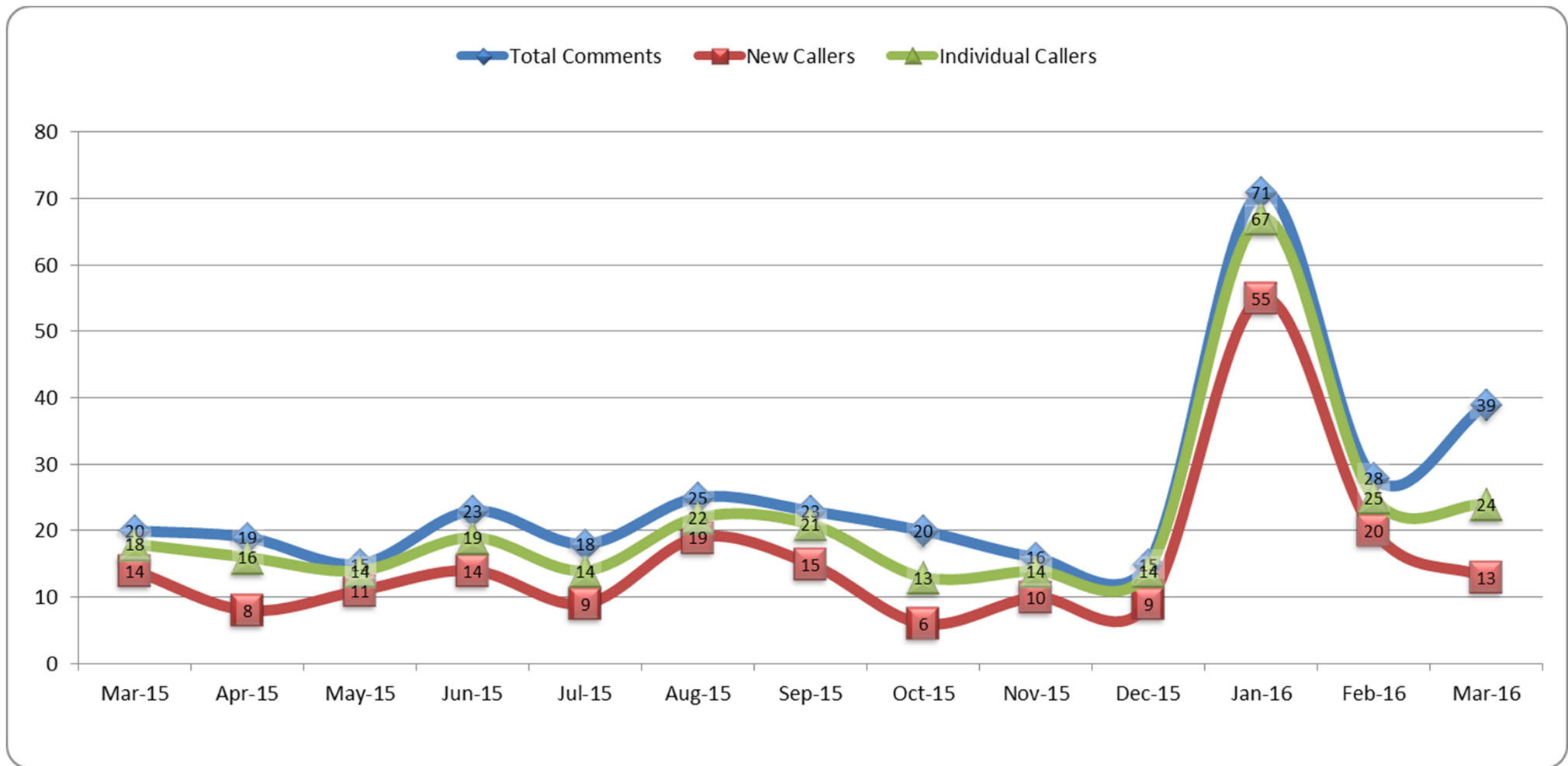
Comment Type* (SDF and LOU)

March 2016



New Address/Comments per Month (SDF and LOU)

March 2016





***LOUISVILLE
REGIONAL
AIRPORT
AUTHORITY®***

NOISE COMMENT REPORT

April 2016

Comments (SDF/LOU)

April 2016

Street	Zip Code	Time Received	Time	Airport	Disturbance Type	CNF Quad	Status	Operation or Comment Type ¹	Deviation Type ²	Comments
Reading Rd	40217	2016-04-01 14:15:42	2016-04-01 14:15:42	SDF	Other	NE	Investigated	LQHP	None	New owner said that they are following through with the process to change the status from commercial to residential. They will be living in the home vs. commercial use and are interested in the program.
Loretta St	40213	2016-04-01 14:15:42	2016-04-01 14:15:42	SDF	Other	NE	Investigated	LQHP	None	I was checking to see if my home was eligible.
Reading Rd	40217	2016-04-20 10:04:30	2016-04-20 10:04:30	SDF	Other	NE	Investigated	LQHP	None	Homeowner called regarding his property. This is the 4th time calling to inquire about participation. He would like to participate. He said that the initial requests never got forwarded to him.
Eagle Pass	40213	2016-04-22 15:04:30	2016-04-22 15:04:30	SDF	Other	NE	Investigated	LQHP	None	New owner called and was advised by a neighbor about the program. He wanted to know if his home is eligible.
S Barbee Way	40217	2016-04-25 15:12:30	2016-04-25 15:12:30	SDF	Other	NE	Investigated	LQHP	None	Is my home eligible to get my windows replaced with the airport program?

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Comments (SDF/LOU)

April 2016

Street	Zip Code	Time Received	Time	Airport	Disturbance Type	CNF Quad	Status	Operation or Comment Type ¹	Deviation Type ²	Comments
Parkway Dr	40217	2016-04-28 15:12:30	2016-04-28 15:12:30	SDF	Other	NE	Investigated	LQHP	None	Good evening, I made contact with you in early February when we put a bid on a home on Parkway Drive. It is immediately next to an apartment that borders the Phase 6 plan. I was told to contact you if and when the purchase went through, which it did on March 25 of 2016. We purchased the home on a dead end street with a cemetery behind the home as a residence for our daughter. I was reminded of contacting you today when I was at the home and a UPS plane flew directly over the property to land at the airport. Our daughter has had a transplant and has health issues. If there are any EPA concerns as well as noise we would ask for you to please reconsider this home being re-evaluated as part of phase 6. Thank you,
							Received	LQHP	6	
Eastern PKY	40217	2016-04-02 05:11:00	2016-04-02 05:11:00	SDF	Too Much Noise	NE	Investigated	Non-Standard	Weather	It is Saturday morning and I can't sleep in thanks to the airport noise.
Loretta St	40213	2016-04-03 16:19:00	2016-04-03 16:19:00	SDF	Other	SE	Investigated	Standard	None	I was just inquiring into the complaints if any on premature failures of pool covers in the Edgewood subdivision. It is rubber / vinyl substance and I was wondering what effect the black suet from jet exhaust has on this material. It appears to reduce the UV properties and causes the UV rays to affect the nylon webbing underneath. Any insight into this issue would be appreciated.

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Comments (SDF/LOU)

April 2016

Street	Zip Code	Time Received	Time	Airport	Disturbance Type	CNF Quad	Status	Operation or Comment Type ¹	Deviation Type ²	Comments
Bardstown Rd	40204	2016-04-05 13:41:00	2016-04-05 13:41:00	SDF	Too Much Noise	NE	Investigated	Non-Standard	Weather	I have noticed that the airplane noise has been increasingly loud over the Highlands neighborhoods for the past few weeks. How can I find out where the noise monitors are, and how can I ask for a new one to be put in my neighborhood?
Bourbon AV	40213	2016-04-07 14:30:00	2016-04-07 14:30:00	SDF	Other	NE	Investigated	Standard	None	Can you tell me the status of the program and how I can apply?
Browns Ln	40207	2016-04-08 00:31:00	2016-04-08 00:01:00	LOU	Noise At Wrong Time	NE	Investigated	Standard	None	It's 12:27 AM and a loud aircraft just landed. As much as I do enjoy having my sleep interrupted, I am rather disappointed in Bowman Field for; 1) allowing this. 2) more than likely don't care. My address is on Browns Ln. I am right in the approach for LOUD planes. As an Iraq veteran, I am not happy!!!!
Browns Ln	40207	2016-04-13 16:37:00	2016-04-08 00:31:00	LOU	Too Much Noise	NE	Investigated	Standard	None	Arrival/departure....sir, it's a nuisance either way. SDF insulated homes affected by the effects of aircraft and addressed any foundation issues. The homes in the direct paths of your airport at low altitude need to be assessed and find a solution to this problem. The study that was done actually cited that individuals could develop some sort of disorder due to the constant noise of the engines and perpetual noise. I suggest action needs to be taken, before action is taken legally. I am open to any communication regarding this matter.

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Comments (SDF/LOU)

April 2016

Street	Zip Code	Time Received	Time	Airport	Disturbance Type	CNF Quad	Status	Operation or Comment Type ¹	Deviation Type ²	Comments
Bardstown Rd	40204	2016-04-15 04:40:00	2016-04-15 03:00:00	SDF	Noise At Wrong Time	NE	Investigated	Standard	None	<p>The times when I am hearing the planes are from approximately 3 AM – 5 AM, with the worst concentration of them occurring around 4:00-4:30. It is currently 4:20 and they've been going nonstop since about 3:50 this morning.</p> <p>I can still hear them loud and clear despite being in my basement, with ear plugs in, and a white noise machine going. All of this is with the more "normal" weather that we've been having this week compared to last. I am extremely familiar with the airport's flight tracking site, and have used it many times, so I am aware that our home is not actually under the flight path due to the contraflow patterns at night. However, given the proximity to the airport and the greatly increased UPS travel at night--the noise is still quite loud. If the LRAA does not operate a noise monitoring system (as almost all other major airports do), how does it ensure that the airport is actually continuing to comply with the FAA's noise requirements, particularly in light of the nightly UPS traffic? In other words, how do you know that the airport is maintaining the required 65 DNL if the sound is not continuing to be monitored? Is this something I need to bring up at the next Community Noise Forum in May?</p>

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Comments (SDF/LOU)

April 2016

Street	Zip Code	Time Received	Time	Airport	Disturbance Type	CNF Quad	Status	Operation or Comment Type ¹	Deviation Type ²	Comments
S 3rd St	40203	2016-05-01 10:06:00	2016-04-19 00:00:00	SDF	Too Much Noise	NW	Investigated	Standard	None	<p>Everything I can locate on the landing path of UPS jets says they should be making their approach from the South. This comes from a 2008 decision over the complaint of noise disrupting sleep and rattling the historic homes of Old Louisville as well as from UPS's own website that says they will primarily use the flight path landing from the south. However, for the past 12 days the flight path has come directly down the corridor of 7th, 6th, 5th, 4th, 3rd and 2nd streets, flying from North to South to the airport. This is not the first time. We went through months of this in February, March and into April before getting all of about three weeks off. The flights have scored a decibel level of 95 and my house shakes on its foundation for many of these approaches that are far lower than the commercial jets. My family is awakened from 10:30 at night until 2 AM or so, then reawakened at 4 AM through the morning hours. They're still flying overhead on 30 second intervals right now, at 10 AM on a Sunday! Before filing suit, I would hope the airport authority would order a cease and desist on UPS going against their agreement with Louisville and the recommendations of the FAA and the airport authority.</p>

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Comments (SDF/LOU)

April 2016

Street	Zip Code	Time Received	Time	Airport	Disturbance Type	CNF Quad	Status	Operation or Comment Type ¹	Deviation Type ²	Comments
S 4th St	40208	2016-04-29 12:14:49	2016-04-21 23:00:00	SDF	Aircraft Too Low	NW	Investigated	Non-Standard	Weather	Thanks for responding to my last email in March. I have taken note of the points you made and paid more attention to the frequency of the late night, low altitude flights. It is nearly like clockwork. Between 11 PM and 4 AM Tuesday, Wednesday, and Thursdays. Tuesday and Thursdays seem to be the worst. According to your email these flights should only occur due to hazardous weather conditions. You also stated that the low level flights were necessary due to the distance from the airport. This confuses me due to commuter air traffic flying at a much higher altitude overhead during the day as they are approaching the airport. The amount of noise can be unbearable at times. It wakes my 19 month old up. It wakes my wife and me up. At times it shakes our windows. Our home is older than human flight yet its comfort and value are affected by it. Again I would appreciate any insight you could offer.
Milton St	40217	2016-04-30 05:22:00	2016-04-30 04:45:00	SDF	Too Much Noise	NE	Investigated	Standard	None	I am writing to share that the aircraft noise overhead of my house on Milton Street in Schnitzelburg has been so loud that I was woken up despite having white noise in the background while I slept. I was woken up at 4:45 AM and the unusually loud noise has been steady since I have been awake (It is now 5:20 AM and the noise is continuing).
							Received	LRAA	10	

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Comment Location (SDF/LOU)

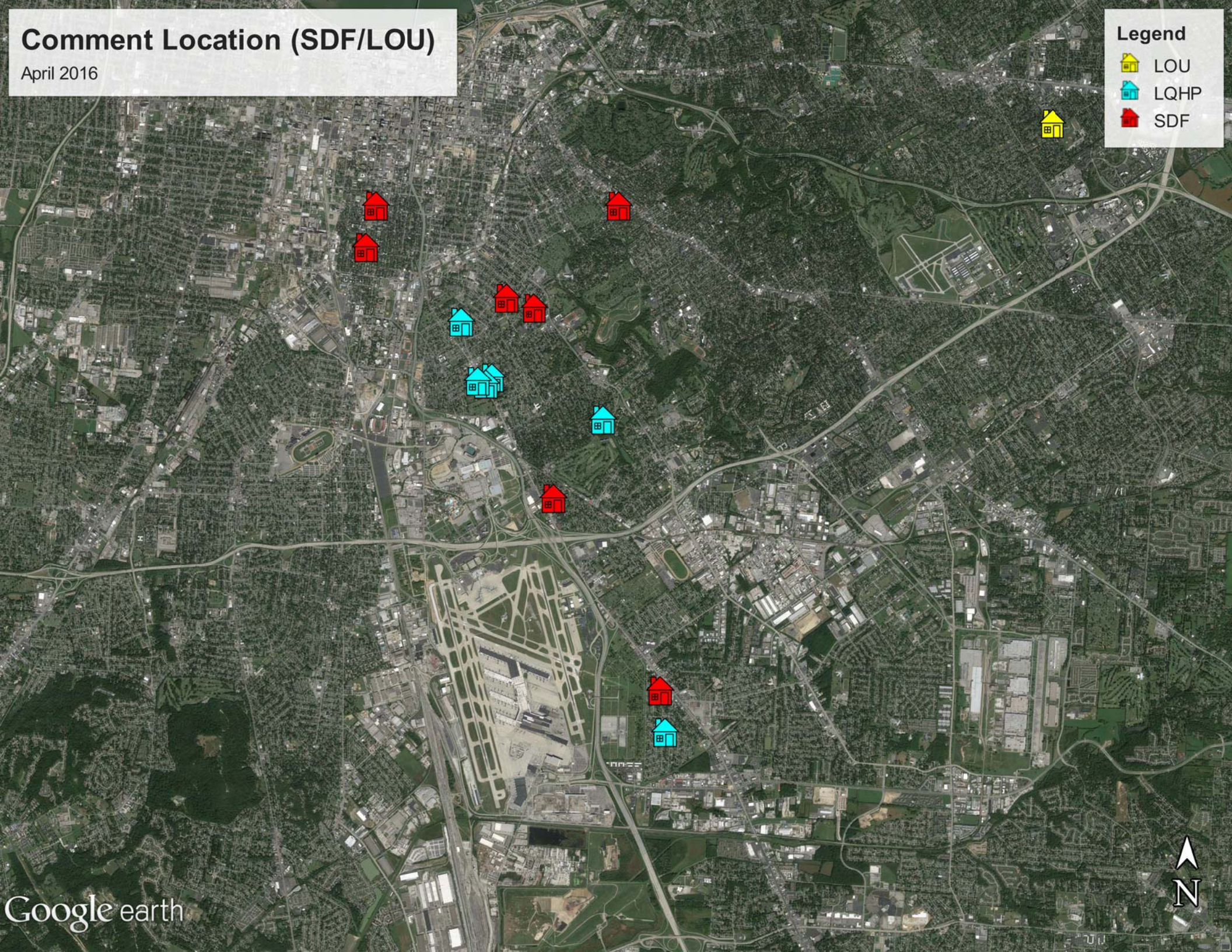
April 2016

Legend

 LOU

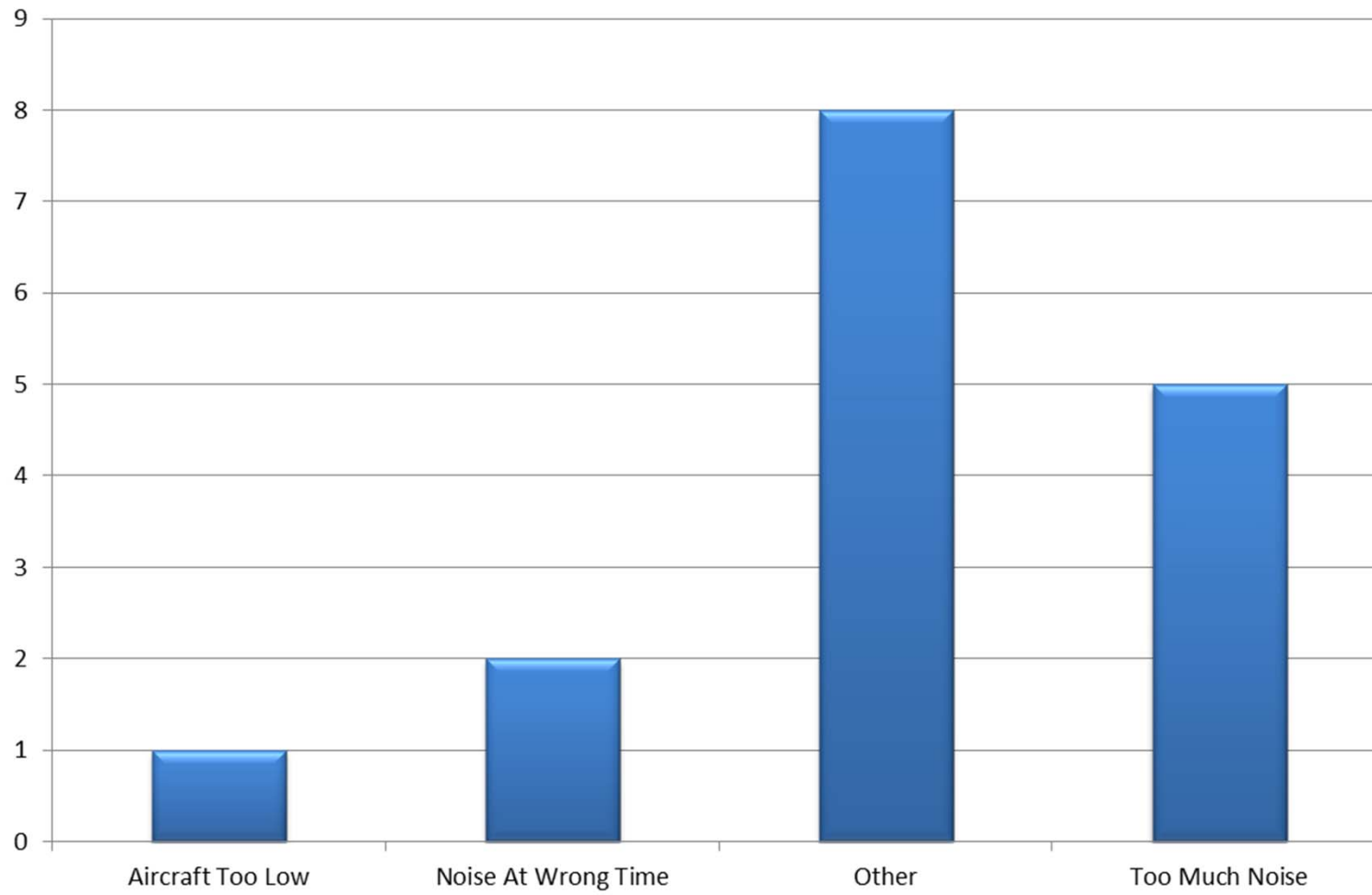
 LQHP

 SDF



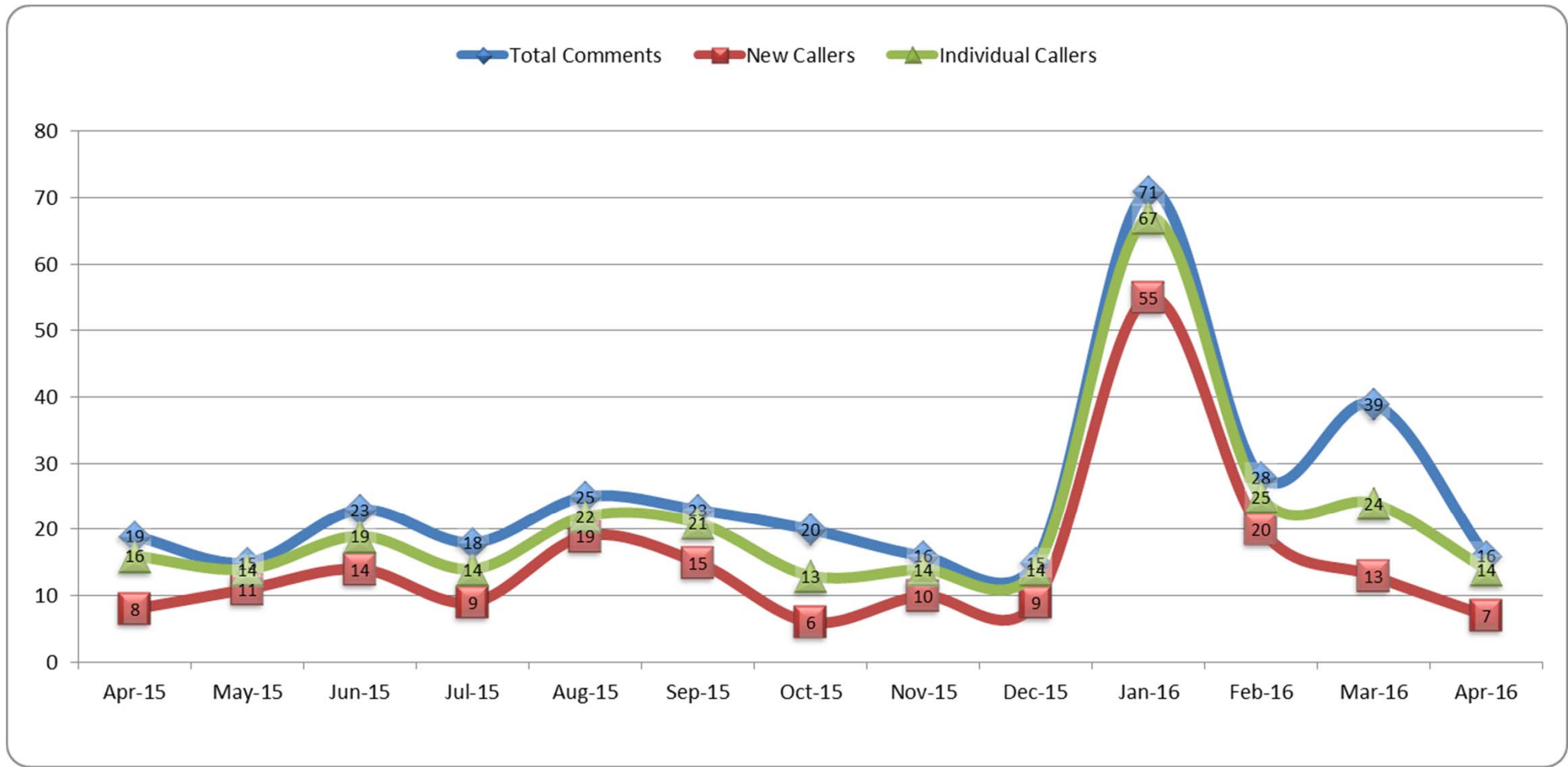
Comment Type* (SDF and LOU)

April 2016



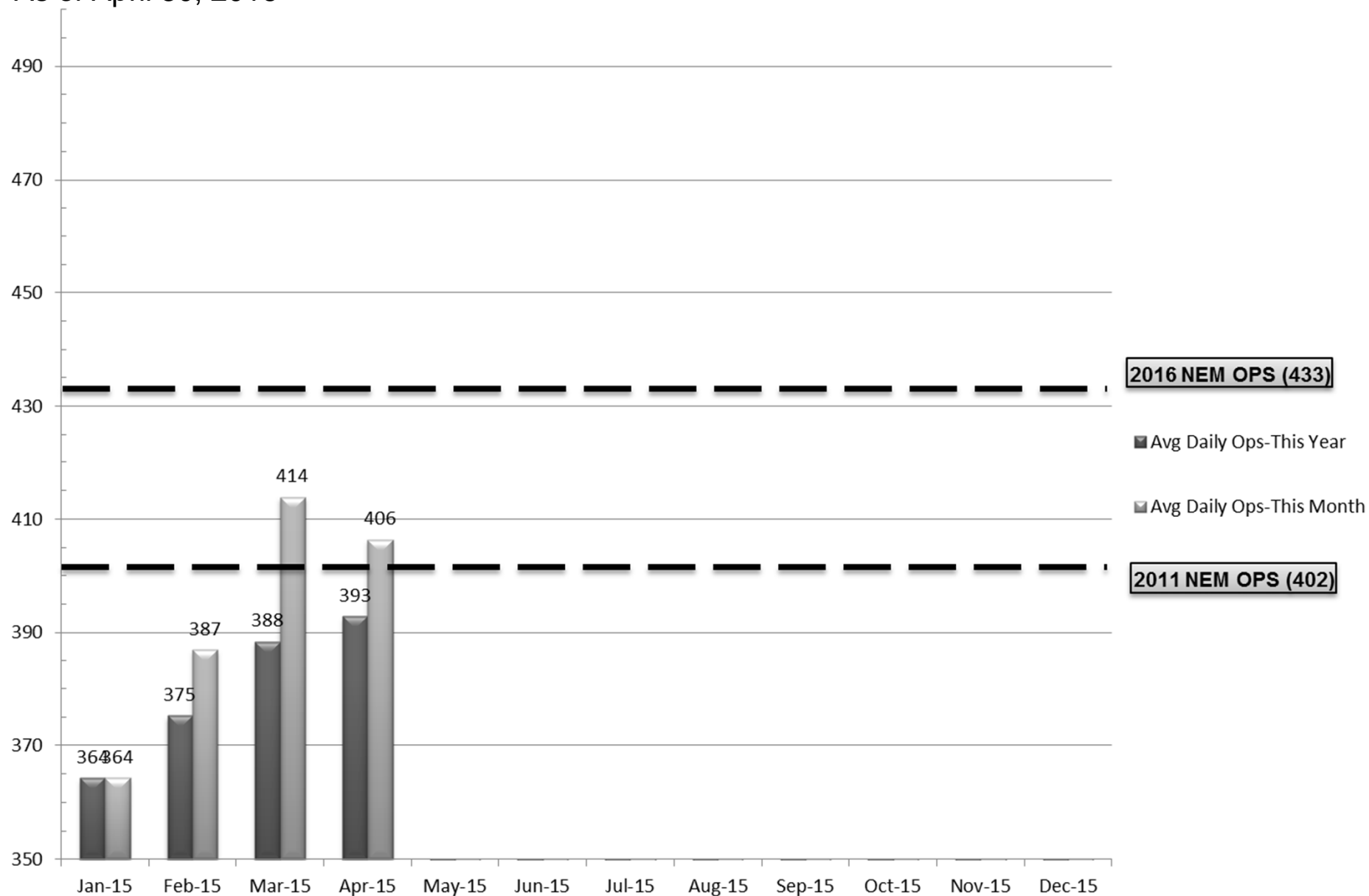
New Address/Comments per Month (SDF and LOU)

April 2016



Operations (SDF)

As of April 30, 2016



Source: Louisville <http://www.flylouisville.com/regional-airport-authority/reports-and-statistics/>

Daily Runway Use Uncorrected (SDF) March 2016

[illegible]

Daily Runway Use (SDF)

Tower Comments March 2016

Day	Date	Time	Comment
Tue	1-Mar-16		
Wed	2-Mar-16	1300-1500	Wind 3309
Thu	3-Mar-16		
Fri	4-Mar-16	1300-1800	Wind 3508
Sat	5-Mar-16	1730-1930	Wind 3211G16, went south at 1838.
Sun	6-Mar-16		
Mon	7-Mar-16		
Tue	8-Mar-16		
Wed	9-Mar-16	1730-1930	Wind 3508 wet runways
Thu	10-Mar-16		
Fri	11-Mar-16	1300-2130	Wind 0210
Sat	12-Mar-16		
Sun	13-Mar-16		
Mon	14-Mar-16	0930-1130	Wind 1708 wet runways
Mon	14-Mar-16	2000-2130	Wind 3211G18
Tue	15-Mar-16		
Wed	16-Mar-16	0730-0800	Wind 2811G17
Wed	16-Mar-16	1100-1230	Wind 2524G30
Wed	16-Mar-16	1930-2000	Wind forecast
Thu	17-Mar-16	2030-2130	Wind 3309
Fri	18-Mar-16		
Sat	19-Mar-16	2000-0000	Wind 0108, no valid reason after 2246.
Sun	20-Mar-16		
Mon	21-Mar-16	1830-0000	Wind 2805G20
Tue	22-Mar-16	0000-0230	R3704 A/B active
Wed	23-Mar-16		
Thu	24-Mar-16		
Fri	25-Mar-16		
Sat	26-Mar-16		
Sun	27-Mar-16		
Mon	28-Mar-16	0500-0900	Wind 2911G16
Mon	28-Mar-16	1300-1500	Wind 3110G15
Tue	29-Mar-16		
Wed	30-Mar-16	0930-1230	Wind forecast 1013G25
Thu	31-Mar-16		

Daily Runway Use Uncorrected (SDF) April 2016

Flow	Time	Fri 4/1	Sat 4/2	Sun 4/3	Mon 4/4	Tue 4/5	Wed 4/6	Thu 4/7	Fri 4/8	Sat 4/9	Sun 4/10	Mon 4/11	Tue 4/12	Wed 4/13	Thu 4/14	Fri 4/15	Sat 4/16	Sun 4/17	Mon 4/18	Tue 4/19	Wed 4/20	Thu 4/21	Fri 4/22	Sat 4/23	Sun 4/24	Mon 4/25	Tue 4/26	Wed 4/27	Thu 4/28	Fri 4/29	Sat 4/30	Time
North Flow	0:00																															0:00
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South Flow	3:00																															3:00
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	21:30																															21:30
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	22:30																															22:30
	23:00																													XXX		23:00
North Flow	23:30																															23:30
	0:00																															0:00
Flow	Time	Fri 4/1	Sat 4/2	Sun 4/3	Mon 4/4	Tue 4/5	Wed 4/6	Thu 4/7	Fri 4/8	Sat 4/9	Sun 4/10	Mon 4/11	Tue 4/12	Wed 4/13	Thu 4/14	Fri 4/15	Sat 4/16	Sun 4/17	Mon 4/18	Tue 4/19	Wed 4/20	Thu 4/21	Fri 4/22	Sat 4/23	Sun 4/24	Mon 4/25	Tue 4/26	Wed 4/27	Thu 4/28	Fri 4/29	Sat 4/30	Time

Preferred Flow

DATIS Reported Conditions Indicate Support for Non-Preferred Flow

DATIS Reported Conditions Do Not Indicate Support for Non-Preferred Flow

South Flow is Preferred Flow from 09:30 Saturday - 09:30 Monday

XXX Complaint

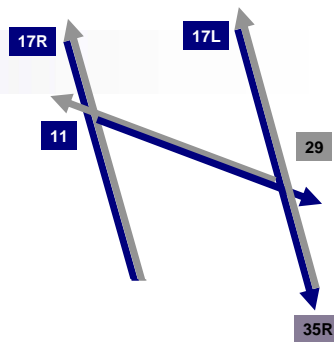
Source: Louisville International Airport
Aircraft Flight Tracking and Noise Management System (AFTNMS)

Daily Runway Use (SDF)

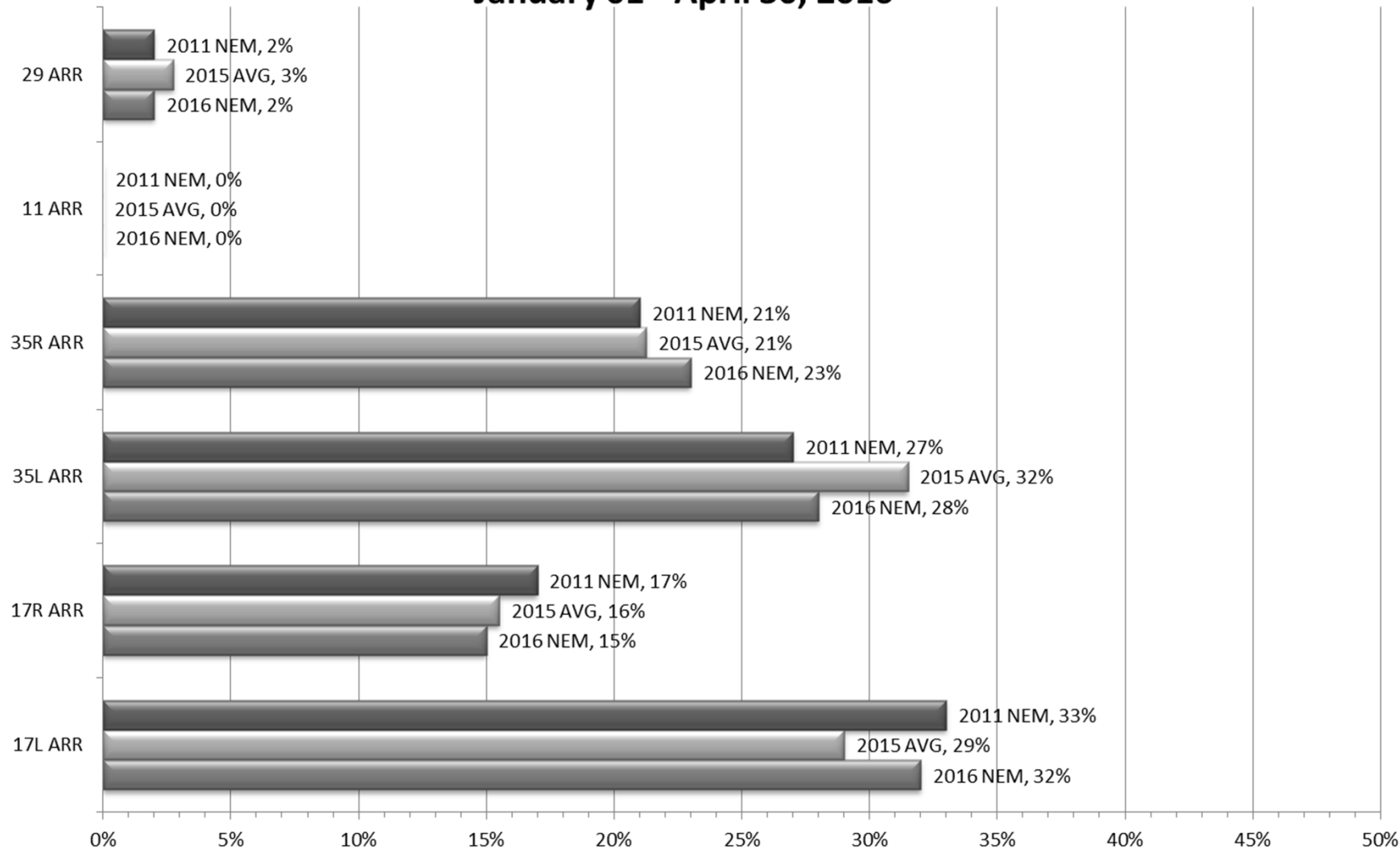
Tower Comments April 2016

Day	Date	Time	Comment
Fri	1-Apr-16	1900-2130	Wind 2913G17
Sat	2-Apr-16	0730-1100	Wind 3012G18
Sun	3-Apr-16	0400-0500	Wind 3211G18
Mon	4-Apr-16		
Tue	5-Apr-16		
Wed	6-Apr-16		
Thu	7-Apr-16	0300-0700	Wind 2714G22
Fri	8-Apr-16		
Sat	9-Apr-16		
Sun	10-Apr-16		
Mon	11-Apr-16		
Tue	12-Apr-16		
Wed	13-Apr-16		
Thu	14-Apr-16		
Fri	15-Apr-16		
Sat	16-Apr-16		
Sun	17-Apr-16		
Mon	18-Apr-16		
Tue	19-Apr-16	0930-1230	Flight check and TWY closures.
Wed	20-Apr-16	0930-1230	Flight check on 17R
Thu	21-Apr-16		
Fri	22-Apr-16	0930-1830	Thunder Practice, on RWY 29 @ 1051
Sat	23-Apr-16		
Sun	24-Apr-16		
Mon	25-Apr-16		
Tue	26-Apr-16		
Wed	27-Apr-16	0930-1000	Thunderstorms south of airport
Thu	28-Apr-16	0930-1130	Wind 2110, forecast2315G22
Fri	29-Apr-16		
Sat	30-Apr-16		

Runway Use (SDF Arrivals)

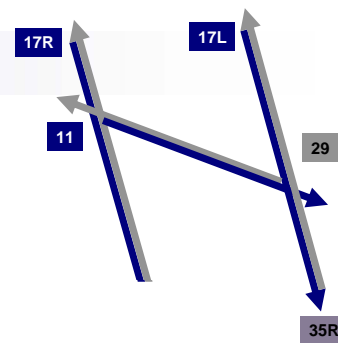


NEM vs. Actual January 01 - April 30, 2016

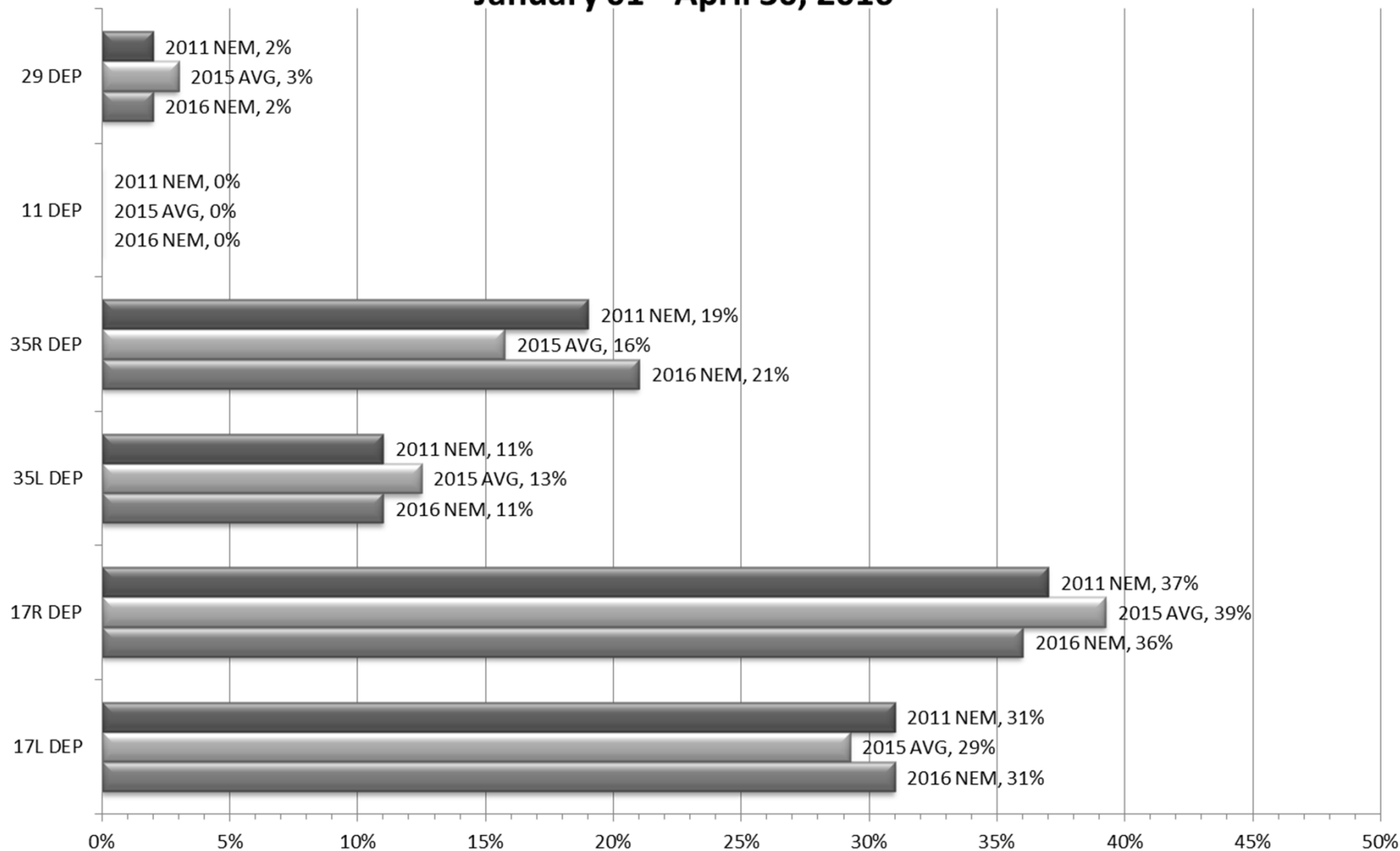


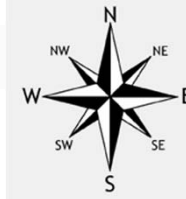
Source: Louisville International Airport
Aircraft Flight Tracking and Noise Management System (AFTNMS)

Runway Use (SDF Departures)



NEM vs. Actual
January 01 - April 30, 2016



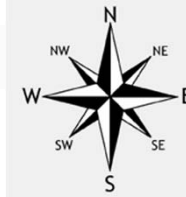


Runway Use 0930L-1230L_(SDF)

As of April 30, 2016

	Arrival Percentage by Runway								Departure Percentage by Runway							
	11	17L	17R	29	35L	35R	% From South	Arrival Count	11	17L	17R	29	35L	35R	% To North	Departure Count
May-14	0	32	25	0	24	19	43	706	0	36	22	1	5	36	41	387
Jun-14	0	27	22	0	36	15	51	643	0	36	20	2	10	32	42	389
Jul-14	0	12	12	0	44	32	76	733	0	12	10	0	20	58	78	410
Aug-14	0	13	2	0	54	31	85	673	0	11	6	0	27	56	83	407
Sep-14	0	14	8	0	38	40	78	668	0	11	11	0	20	58	78	388
Oct-14	0	30	20	0	25	25	50	767	0	35	16	0	5	44	49	414
Nov-14	0	11	15	8	44	22	66	610	0	16	14	11	10	49	59	335
Dec-14	0	22	13	0	38	27	65	959	0	24	16	1	8	51	59	373
Jan-15	0	17	6	0	45	32	77	619	0	15	8	3	22	52	74	313
Feb-15	0	14	18	0	37	31	68	619	0	12	15	2	10	61	71	317
Mar-15	0	9	17	0	47	27	74	662	0	10	15	0	28	47	75	396
Apr-15	0	20	15	14	37	14	51	667	0	24	21	16	23	16	39	371
May-15	0	28	23	0	38	11	49	656	0	33	27	0	19	21	40	358
Jun-15	0	21	22	0	42	15	57	683	0	30	22	0	17	31	48	349
Jul-15	0	12	25	0	42	21	63	827	0	17	21	0	15	47	62	403
Aug-15	0	15	25	0	38	22	60	712	0	20	19	0	15	46	61	365
Sep-15	0	7	24	0	36	33	69	796	0	11	20	0	13	56	69	407
Oct-15	0	19	31	0	26	24	50	784	0	20	25	0	2	53	55	411
Nov-15	0	20	25	11	22	22	44	676	0	15	26	12	5	42	47	380
Dec-15	0	26	19	0	37	18	55	1082	0	24	25	0	5	46	51	449
Jan-16	0	26	22	2	30	20	50	650	0	26	22	3	11	38	49	312
Feb-16	0	17	12	0	49	22	71	738	1	13	14	2	19	51	70	314
Mar-16	0	33	37	0	21	9	30	796	0	31	29	4	9	27	36	396
Apr-16	0	27	17	8	31	17	48	712	1	30	17	6	15	31	46	356
Monthly Avg.	0	20	19	2	37	23	60		0	21	18	3	14	44	58	

Source: Louisville International Airport
Aircraft Flight Tracking and Noise Management System (AFTNMS)



Gate Compliance by Runway

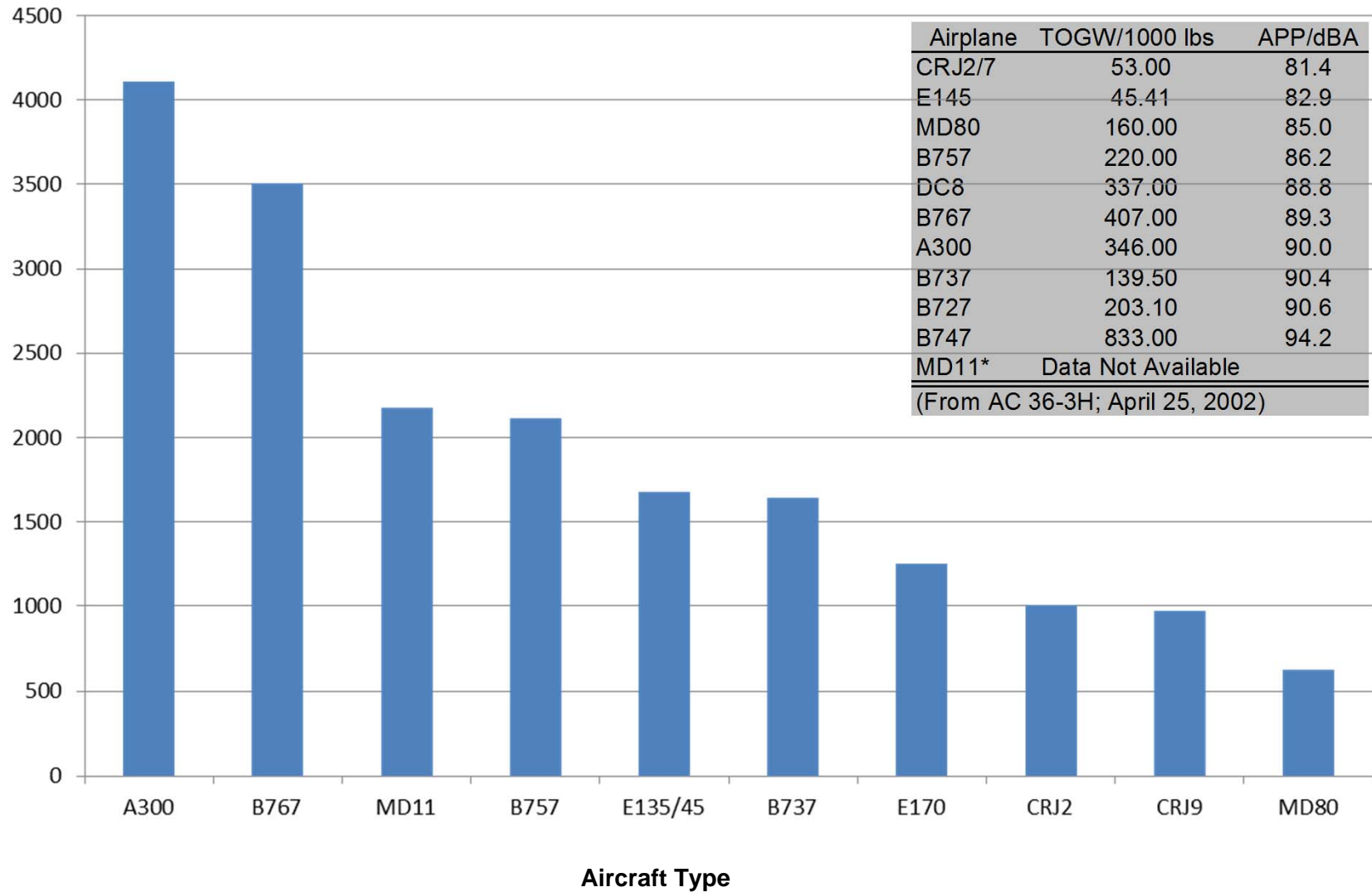
As of April 30, 2016

	ARRIVALS Percent Compliant					Departure Percent Compliant				
Month	17L	17R	35L	35R	ARR AVG	17L	17R	35L	35R	DEP AVG
May-14	75%	88%	78%	81%	81%	68%	85%	59%	82%	74%
Jun-14	82%	92%	86%	82%	86%	71%	89%	81%	94%	84%
Jul-14	79%	88%	78%	76%	80%	88%	89%	79%	92%	87%
Aug-14	84%	91%	82%	80%	84%	89%	85%	76%	90%	85%
Sep-14	81%	81%	81%	79%	81%	91%	88%	79%	92%	88%
Oct-14	82%	94%	88%	87%	88%	85%	88%	79%	92%	86%
Nov-14	80%	91%	91%	91%	88%	79%	92%	83%	87%	85%
Dec-14	91%	96%	93%	95%	94%	85%	89%	81%	88%	86%
Jan-15	80%	93%	90%	87%	88%	83%	93%	78%	88%	86%
Feb-15	80%	91%	87%	87%	86%	84%	93%	81%	92%	88%
Mar-15	78%	90%	88%	84%	85%	83%	88%	65%	86%	81%
Apr-15	83%	93%	80%	77%	83%	79%	86%	63%	82%	78%
May-15	79%	86%	84%	82%	83%	82%	87%	71%	90%	83%
Jun-15	80%	91%	87%	85%	86%	84%	89%	78%	91%	86%
Jul-15	86%	96%	88%	85%	89%	73%	86%	71%	87%	79%
Aug-15	81%	90%	82%	82%	84%	77%	88%	78%	88%	83%
Sep-15	79%	86%	84%	83%	83%	78%	88%	77%	91%	84%
Oct-15	82%	90%	88%	85%	86%	71%	88%	66%	86%	78%
Nov-16	82%	93%	87%	86%	87%	80%	88%	75%	87%	83%
Dec-16	89%	97%	93%	94%	93%	75%	90%	83%	90%	85%
Jan-16	83%	94%	89%	88%	89%	74%	90%	63%	83%	78%
Feb-16	80%	94%	91%	91%	89%	85%	89%	75%	83%	83%
Mar-16	85%	95%	89%	88%	89%	70%	87%	73%	85%	79%
Apr-16	80%	90%	86%	87%	86%	83%	83%	69%	82%	79%
24 Month Avg.					86%					83%

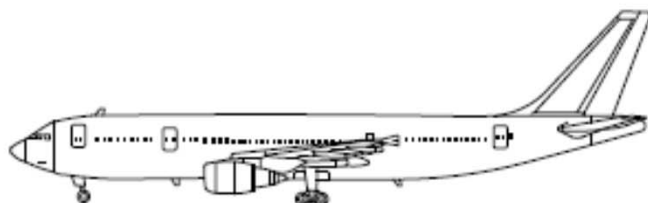
Source: Louisville International Airport
Aircraft Flight Tracking and Noise Management System (AFTNMS)

Operations by Aircraft Type (SDF) Only Top 10 Aircraft Types Shown

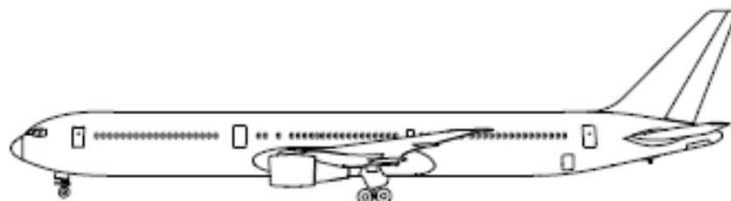
March / April 2016



Sample Aircraft Types (SDF)



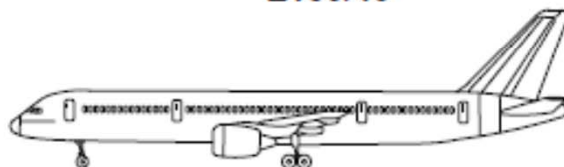
A300



B767



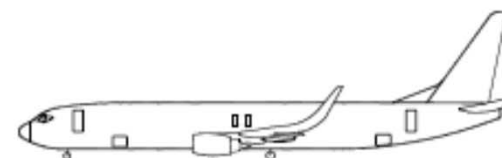
E135/45



B757



MD11



B737



CRJ2



E170



MD80



CRJ9



**LOUISVILLE
REGIONAL
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Louisville International Airport Noise Exposure Map Update

Community Noise Forum Meeting

May 23, 2016



HARRIS MILLER MILLER & HANSON INC.

Louisville International NEM Update

Welcome and Introductions

- **Consultant Team Members Present**
 - Diana Wasiuk, *Project Manager, HMMH*
 - Justin Divens, *Modeling Lead, HMMH*

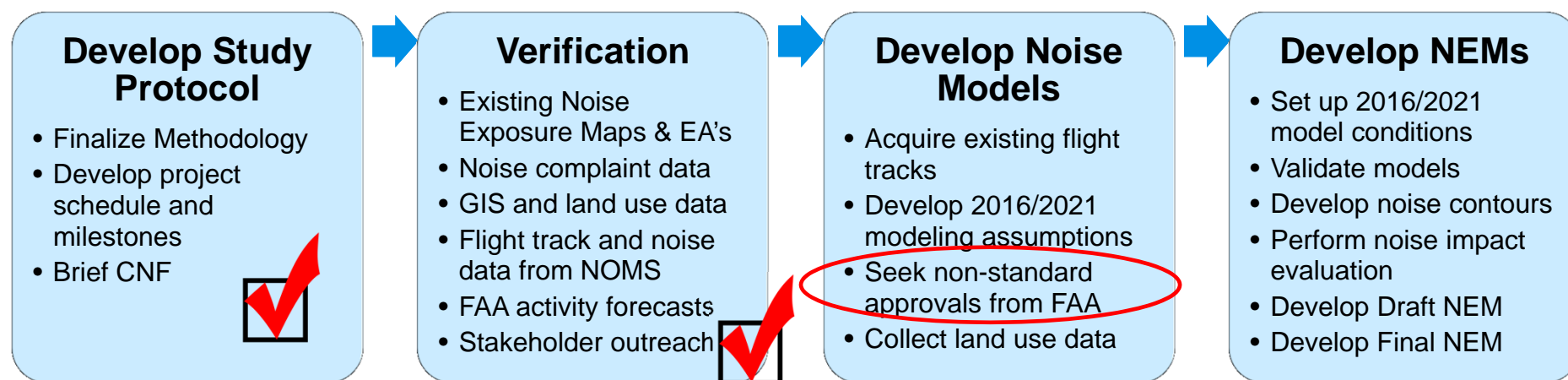
Louisville International NEM Update

Presentation Overview

- **NEM Progress to date**
 - **Non-standard requests to FAA for review**
 - **Modeling Assumptions**
 - **Next steps**
-

Louisville International NEM Update

Progress To Date



Meetings

Community Noise Forum

Public Meetings

Louisville International NEM Update

Progress to Date

- **Develop Study Protocol**
 - Finalize Methodology
 - Develop project schedule and milestones
 - Brief CNF



Louisville International NEM Update

Progress To Date

■ **Verification**

- Existing Noise Exposure Map
- Noise complaint data
- GIS and land use data
- Flight track and noise data from NOMS
- FAA activity forecasts
- Stakeholder outreach



Louisville International NEM Update

Progress To Date

- **Develop Noise Models**

- Acquire and quality control 2015 flight track data 
 - Develop Existing (2016) and 5-year forecast (2021) modeling assumptions
 - Operations forecasts
 - Flight tracks
 - Other assumptions: runway use, run-up activity, etc.
 - Seek non-standard approvals from FAA
 - Aircraft substitution
 - Custom profiles
 - Collect land use data and policies
-

Louisville International NEM Update

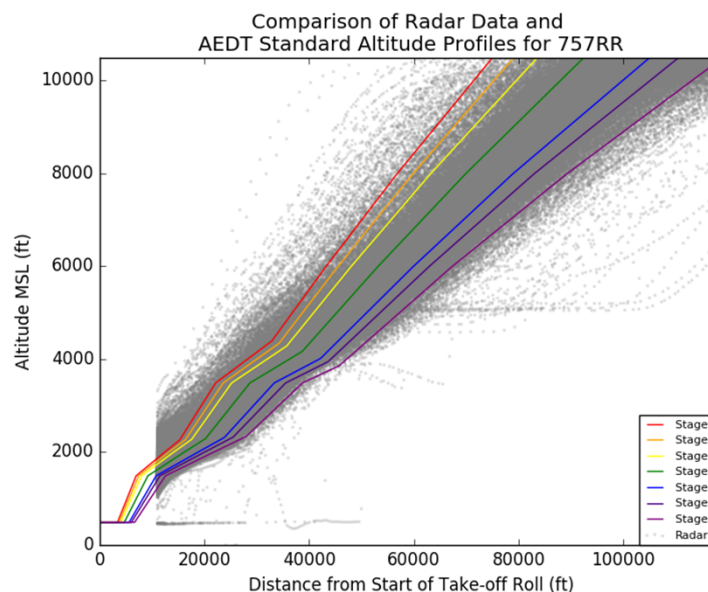
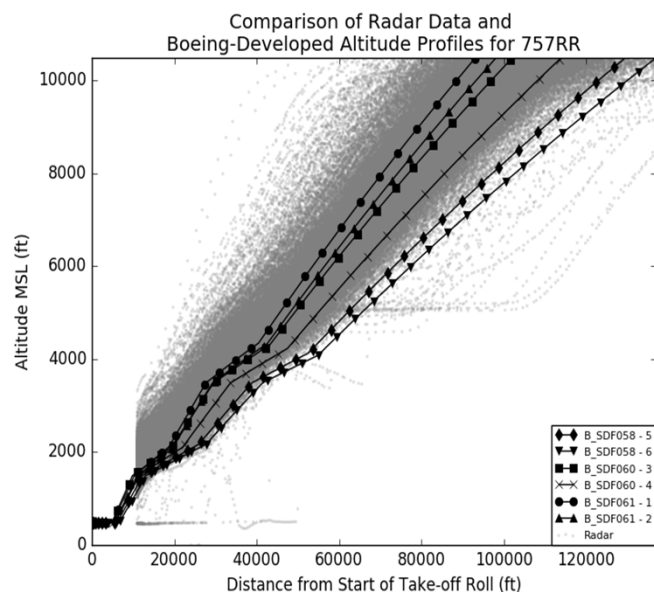
Progress To Date

- **Develop NEM**
 - Set up 2016/2021 model conditions
 - Validate model input
 - Develop 2016/2021 contours
 - Perform noise impact evaluation
 - Develop Draft NEM
 - Develop Final NEM
-

Louisville International NEM Update

Documentation: Non-standard Substitution Requests

- **Non-standard Memos:**
 - Aircraft substitution request
 - Custom profile request



Louisville International NEM Update

Documentation: Modeling Assumptions - Runway Use

- **Existing Runway Use (2016 modeling conditions)**
 - 2014 calendar year data for runway use
 - Over 126,000 individual flight tracks
 - Each aircraft type listed in the existing operations has it's own runway use

 - **Future Runway Use (2021 modeling conditions)**
 - Assume no changes to noise abatement or runway use
 - 2016 runway use adjusted for long-term trends
-

Louisville International NEM Update

Documentation: Modeling Assumptions - Runway Use

Runway	Departures	Arrivals
17L	30.5%	30.7%
17R	42.2%	16.5%
35L	10.3%	30.3%
35R	15.5%	21.2%
11	0.0%	0.0%
29	1.4%	1.3%
Total	100%	100%

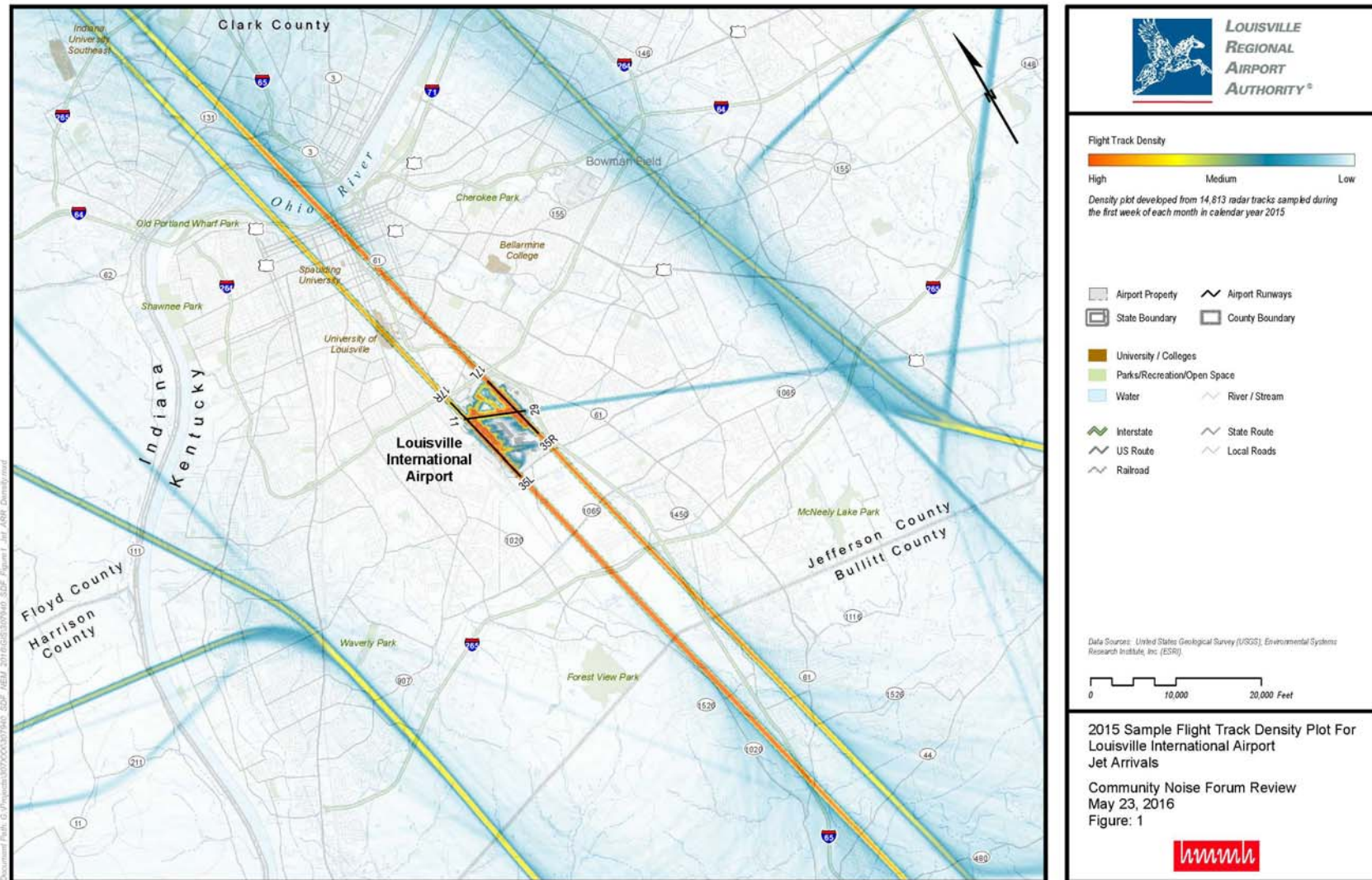
Notes: Totals may not match exactly due to rounding.

All helicopters, military and civilian, were modeled using Taxiway E4

Source: HMMH, LRAA, NOMS data

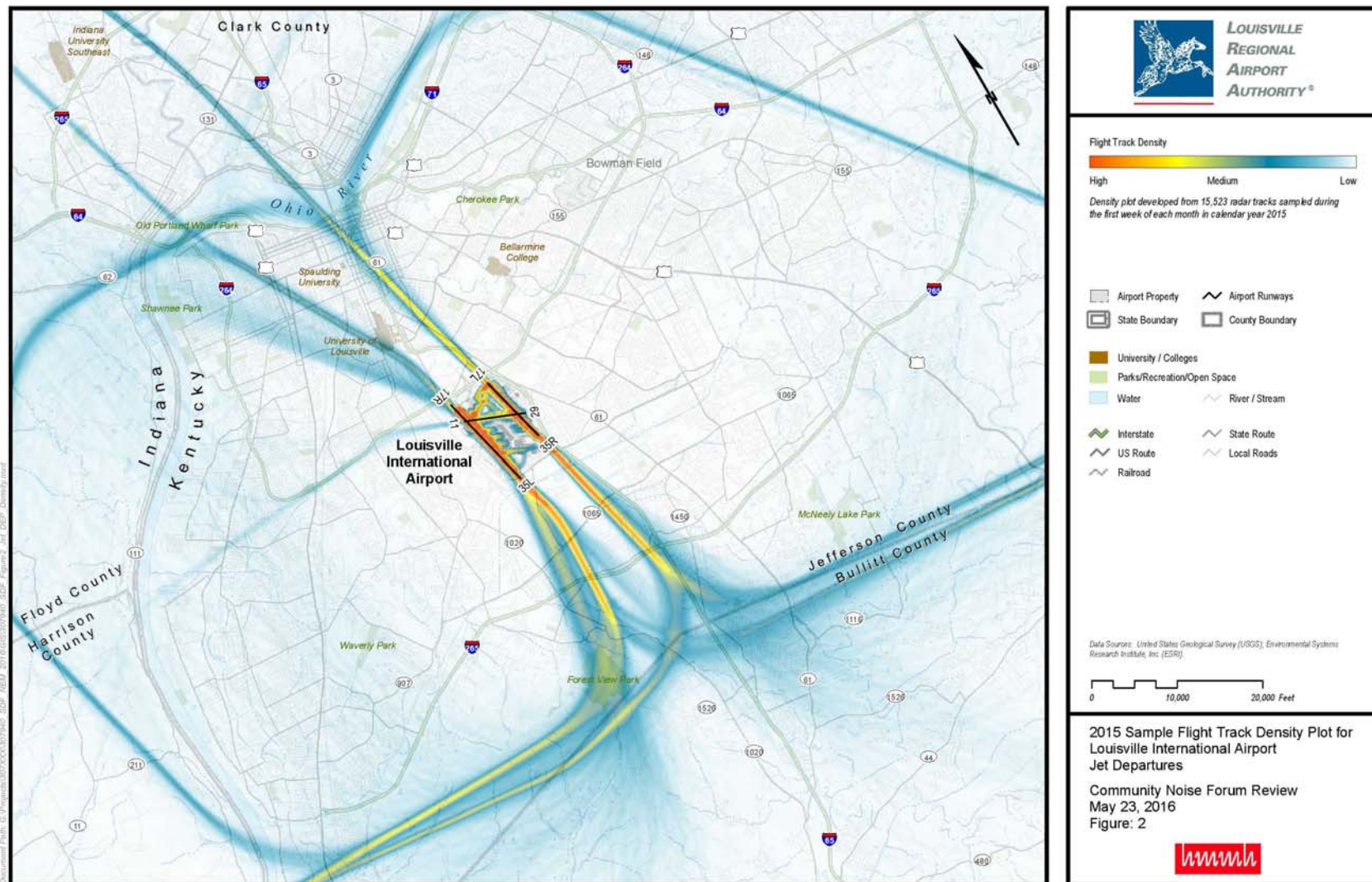
Louisville International NEM Update

Documentation: Modeling Assumptions – Density Plots



Louisville International NEM Update

Documentation: Modeling Assumptions – Density Plots



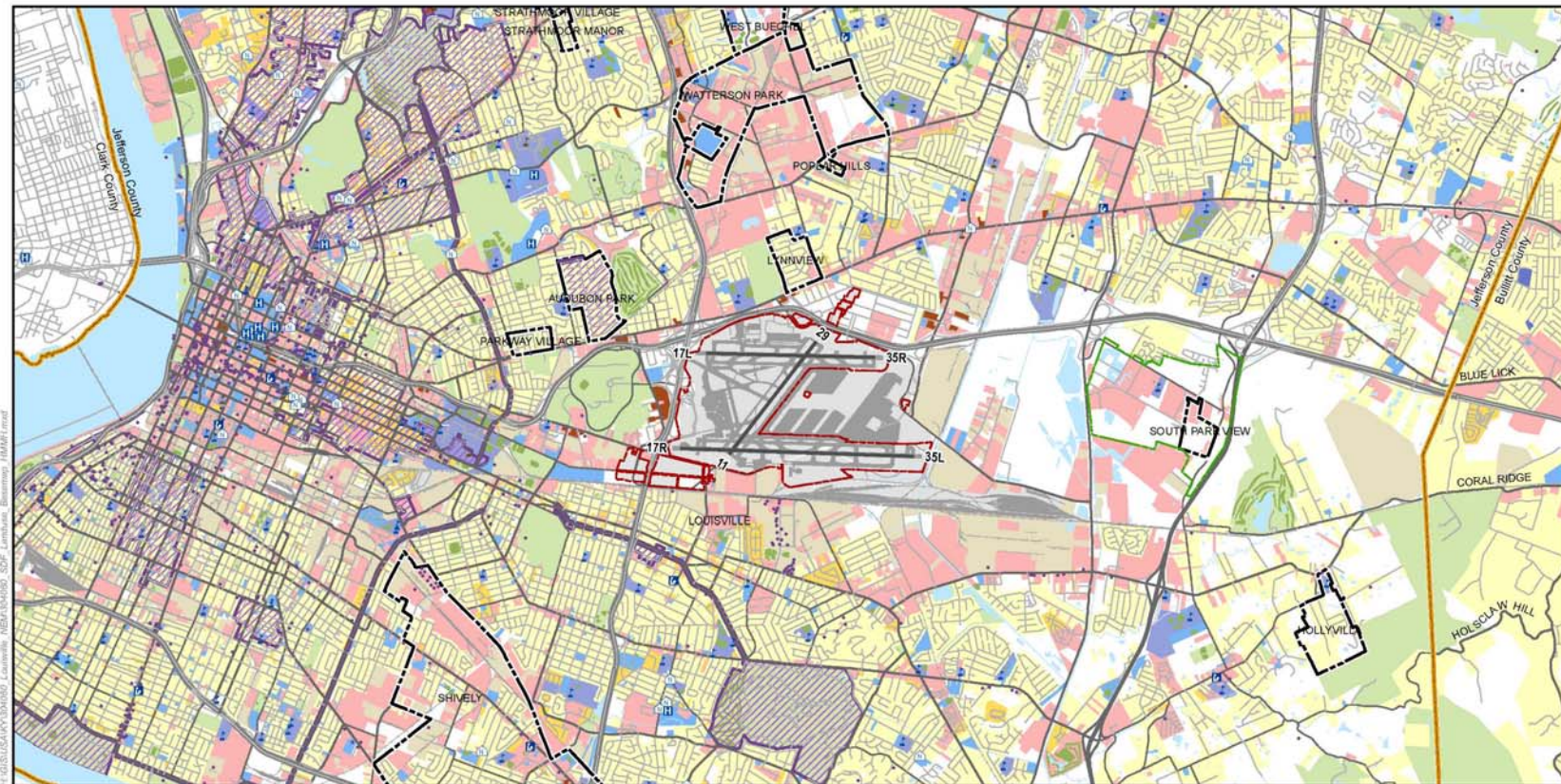
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Documentation: Modeling Assumptions – Land Use Map

- Developed from LOJIC data
 - Final iteration field verified approximately to approximately 1000' of the 65 dB DNL contours of the 2010 Noise Exposure Map
 - Organized into FAA's land use categories
-

Louisville International NEM Update

Documentation: Modeling Assumptions – Land Use Map



DRAFT - For Discussion Purposes Only - 5/19/2016

Legend

College/University	Expressway	Residential Single Family
Schools	Arterial	Residential Multi-Family
Hospital	Collector	Commercial
Nursing Home	Local	Manufacturing (Including Agriculture)
Library	Railroad	Parks / Cemeteries / Recreation
Place of Worship	Runway	Public / Government Use
Airport Boundary	Historic District	Educational (Missing)
Municipal Boundary	Non-District Historic Site	Transportation
County Boundary		Vacant / Undefined
Airport Relocation Area		Water

Draft Land Use Map
For Review

May 19, 2016

Louisville International Airport



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Louisville International NEM Update

Next Steps

- **CNF review documentation and provide comments**
 - Non-standard memos
 - Draft modeling assumptions memo
 - Updated modeling assumptions memo*
 - **Seek FAA approval of non-standard memos**
 - **Seek FAA approval of proposed forecast**
 - **AEDT noise modeling**
 - **Provide CNF with NEM sections as they are prepared**
 - **Draft NEM document expected to be provided to Authority in September**
-


NEM Update Schedule

Phase		Expected Completion Date
No.	Description	
1	Project Initiation	December 15, 2015
2	Data Collection and Forecast	May 15, 2016
3	Prepare Draft Noise Exposure Maps	September 15, 2016
4	Public Comment Period and Workshop	Sep-Oct, 2016
5	Prepare and Submit Noise Exposure Maps	November 15, 2016



Thank You!

**Noise Exposure Map Update
Community Noise Forum Presentation
May 23, 2016**



www.hmmh.com

Louisville International NEM Update

Progress To Date

- **Forecast Overview**
 - Used information from the Master Plan Update, FAA forecasts, interviews and other available data
 - Forecasts 154,348 total operations for 2021

 - **Submitted to FAA**
 - TBD

 - **Approved by FAA**
 - TBD
-

Documentation

Non-Standard Modeling Request

- **Aircraft and Substitutions (provided)**
 - Submitted to FAA on 5/5/2016
 - **Profiles (provided)**
 - Submitted to FAA on 5/5/2016
-